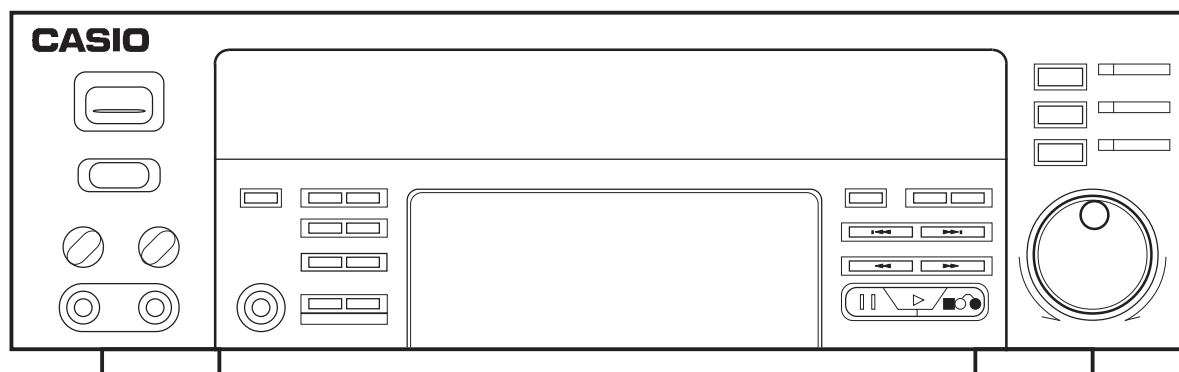


CASIO®

Service Manual

(without price)

VZ-2000



Model: China

INDEX

PORTABLE CD PLAYER

CONTENTS

Disassembly Instructions	1
Block Diagrams	4
V-CD	4
Front, VR, Jack	5
AMP, PS, RF	6
CD	7
CD Adjustments	8
CD Troubleshooting	10
Video CD Troubleshooting	22
PCB Views	26
Display PCB	26
Wiring Diagram	27
IC Lead Identification and Internal Diagrams	28
Schematic Diagrams	47
CD Changer, CD Pickup/Mecha	47
AMP	48
PS	49
CD	50
V-CD	51
Front A	52
Front B (Jack, VR, RF)	53
Parts List.....	54
Exploded Views	60

DISASSEMBLY INSTRUCTIONS

1. Remove eleven screws (A) holding the metal case.

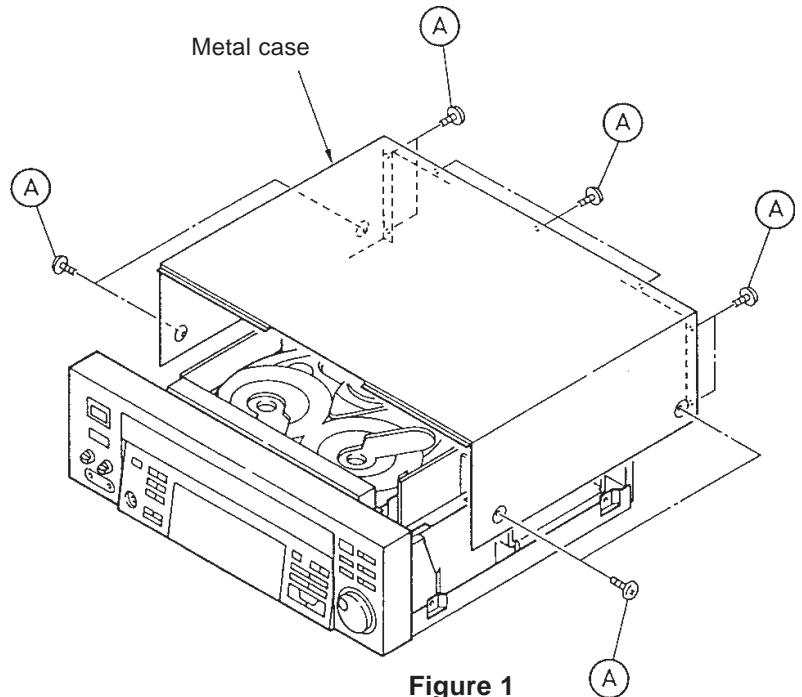


Figure 1

2. Remove six screws (B) and pullout the cord busing from the rear panel.

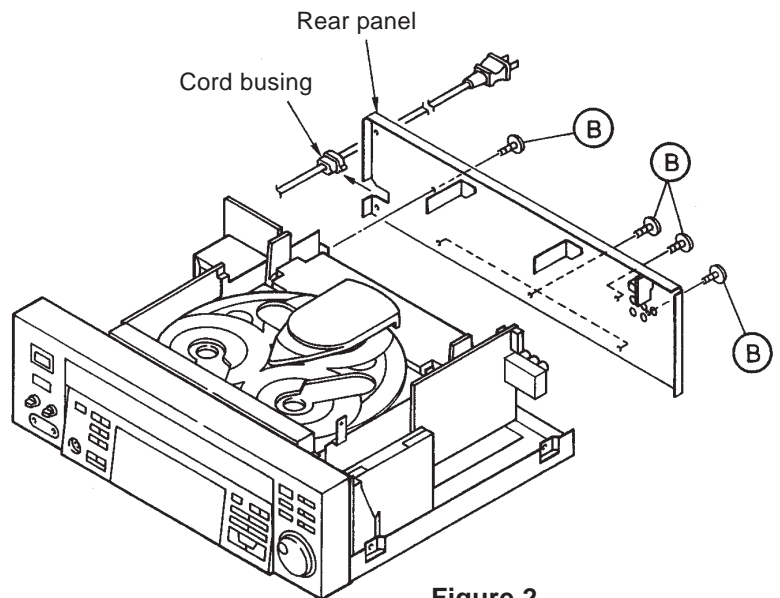


Figure 2

3. Insert a finger in the hole of bottom side, turn the gear to direction of arrow (a). (Unlock the tray panel and pull the tray panel)
4. Pull the tray panel to direction of arrow (b), pull the three tabs to arrow side.

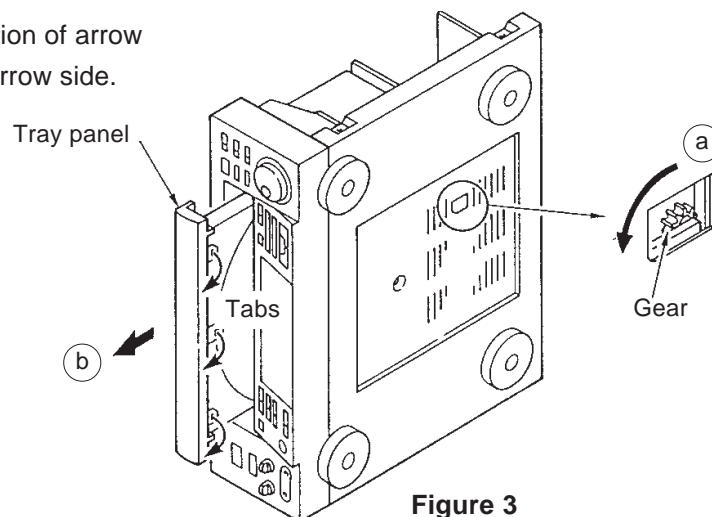


Figure 3

5. Remove two screws (I) holding the front foot. Remove eight screws (C) holding the front case assembly.
Disconnect all connectors from/to front case assembly.

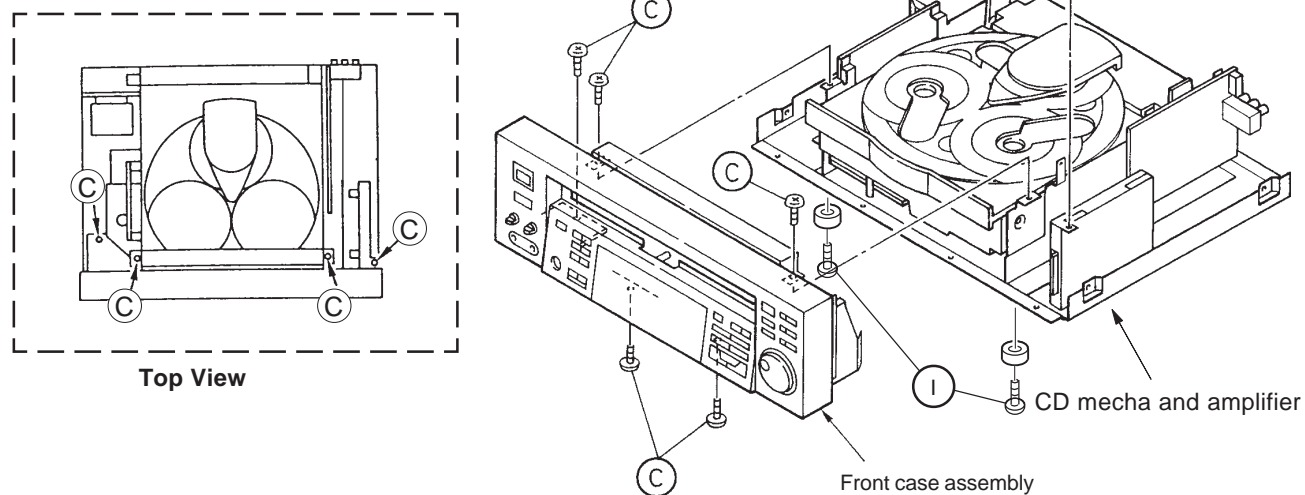


Figure 4

5. Remove seven screws (D) holding the CD mechanism assembly.
Remove bottom screw (D) at first to disassemble easy.

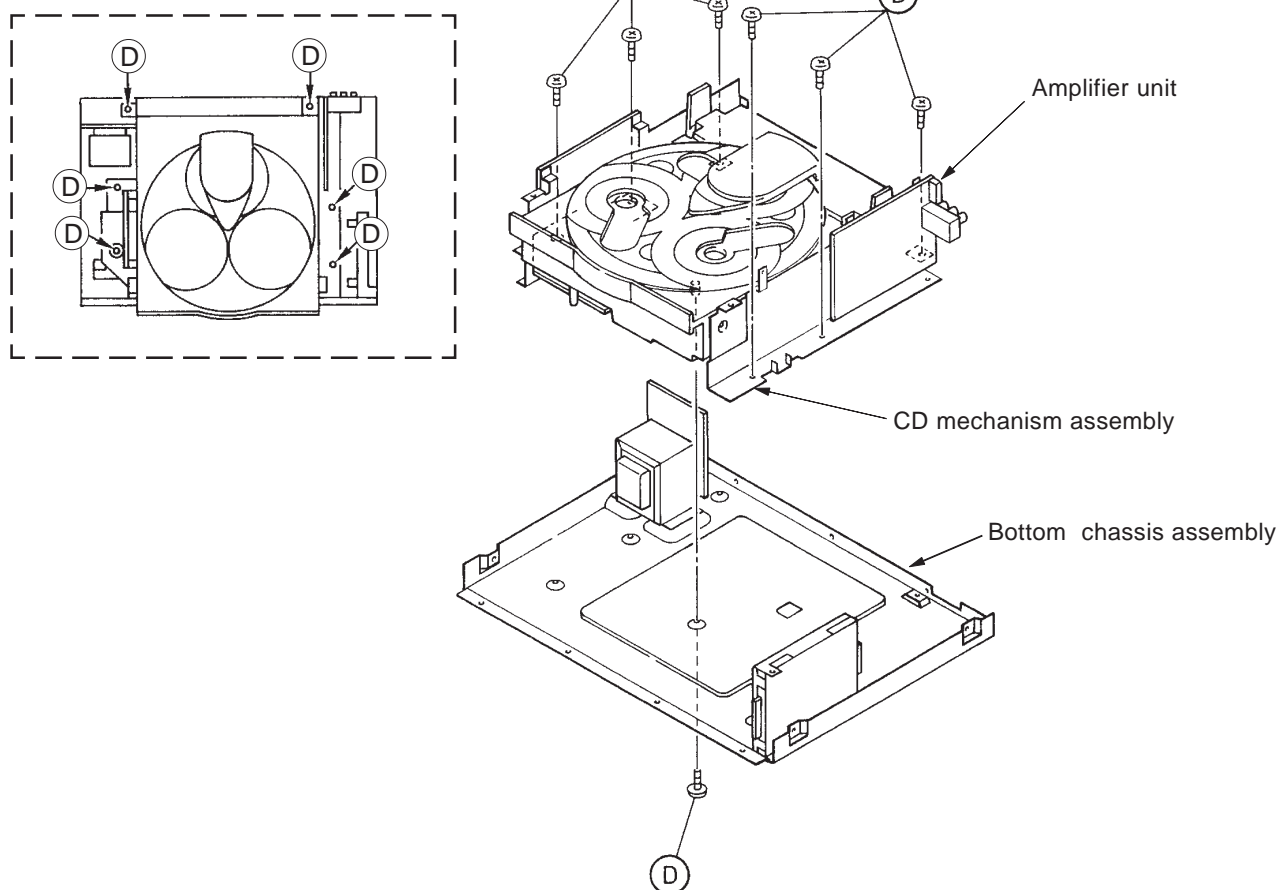


Figure 5

7. Remove four screws (E) holding the amplifier unit.
8. Remove four screws (F) holding the PS unit.
9. Remove six screws (H) holding the CD BKT L and R.
10. Remove screw (G) holding the CD unit.

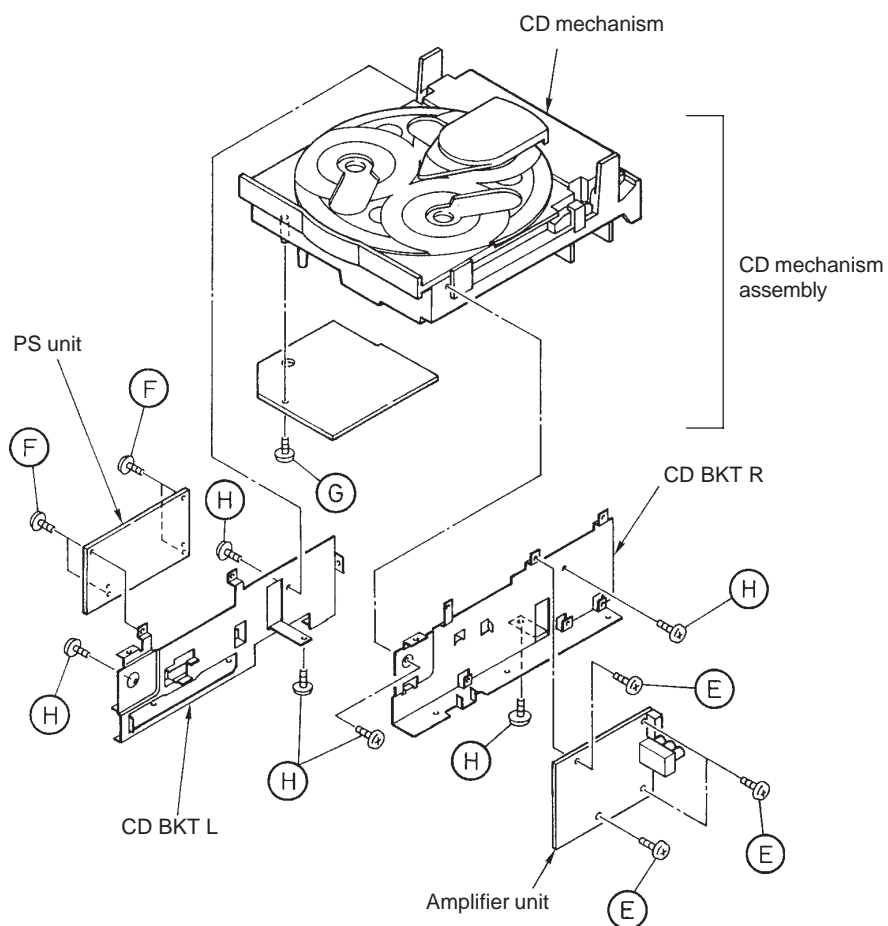
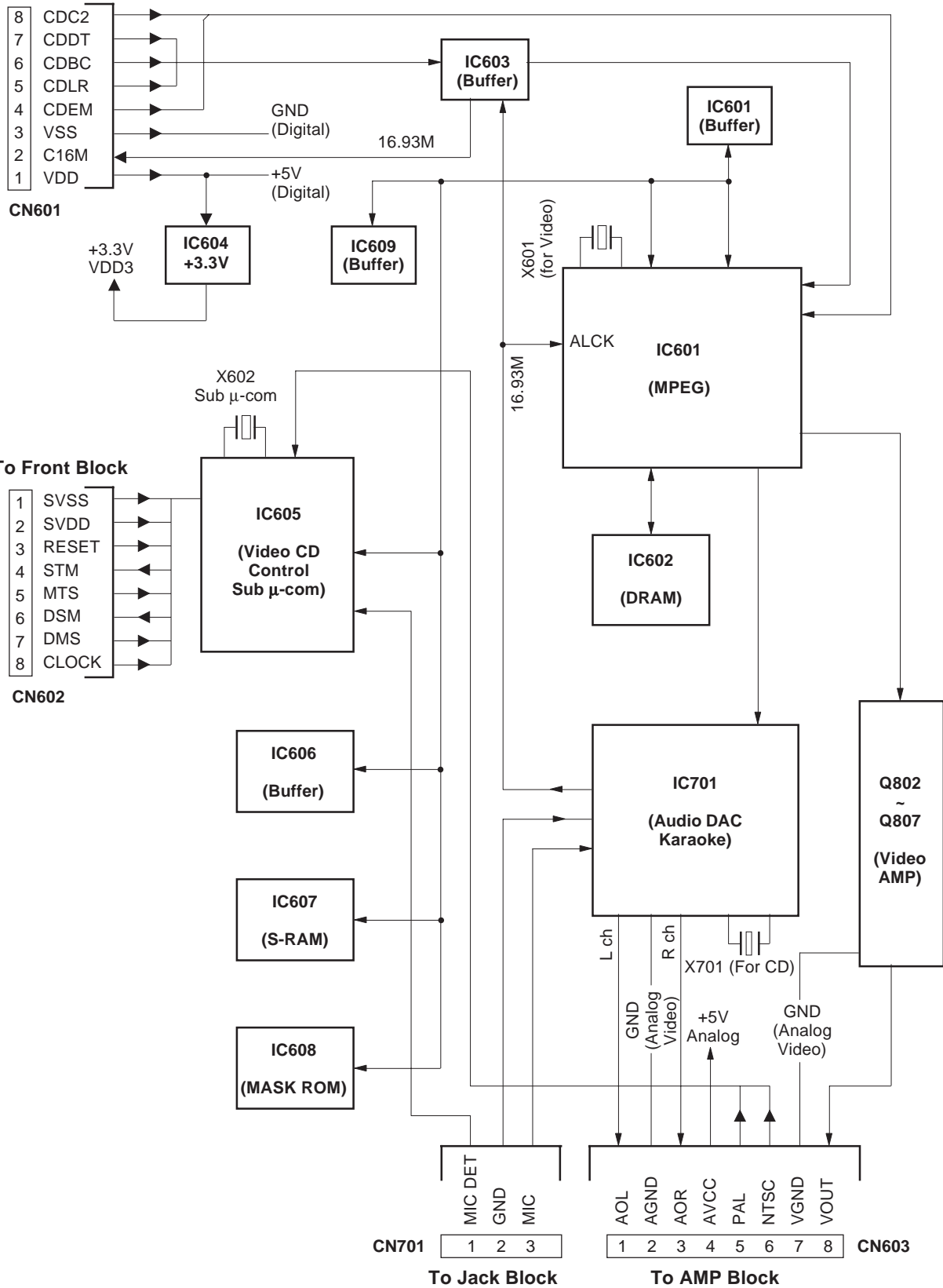


Figure 6

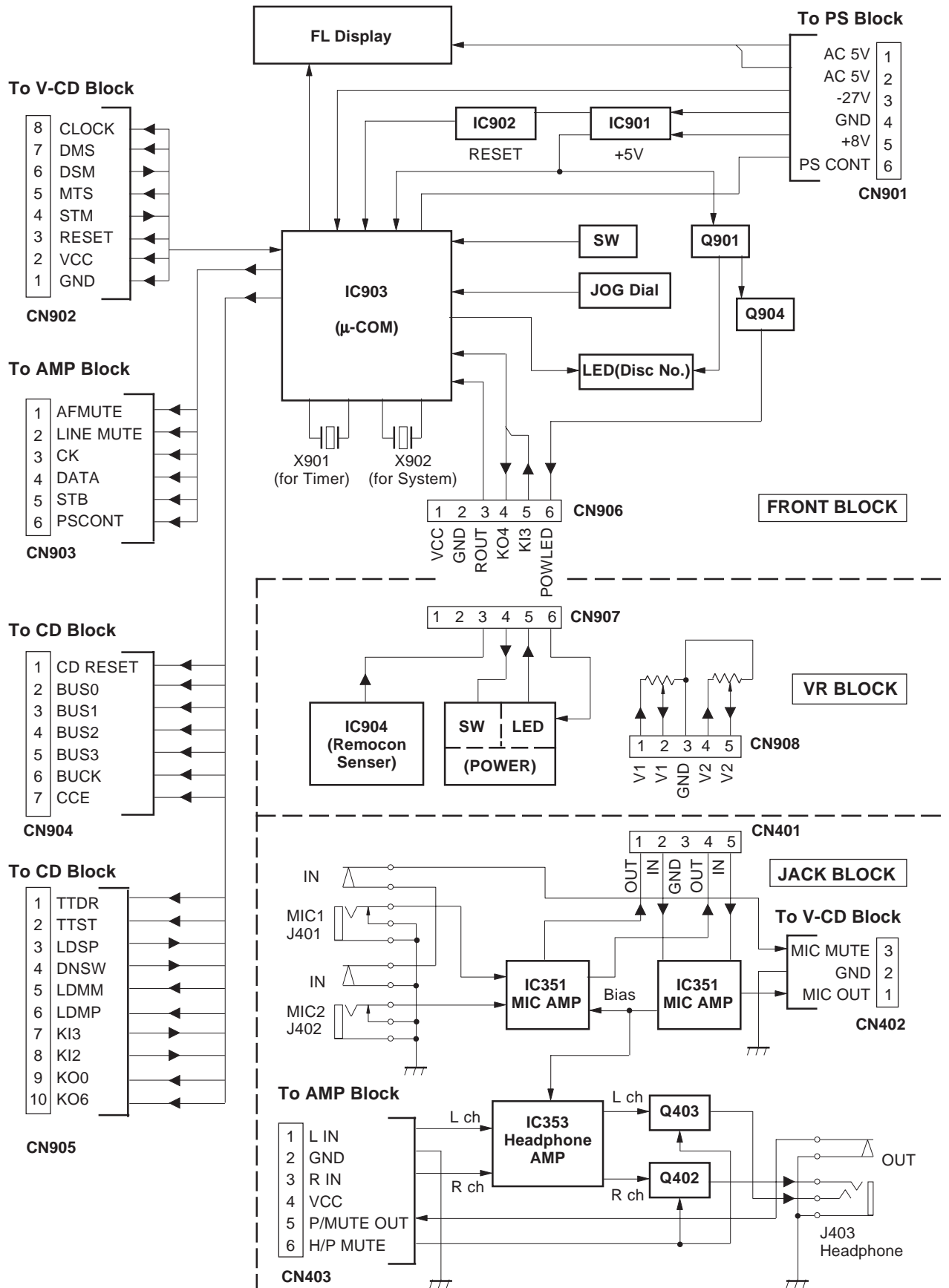
BLOCK DIAGRAMS

V-CD

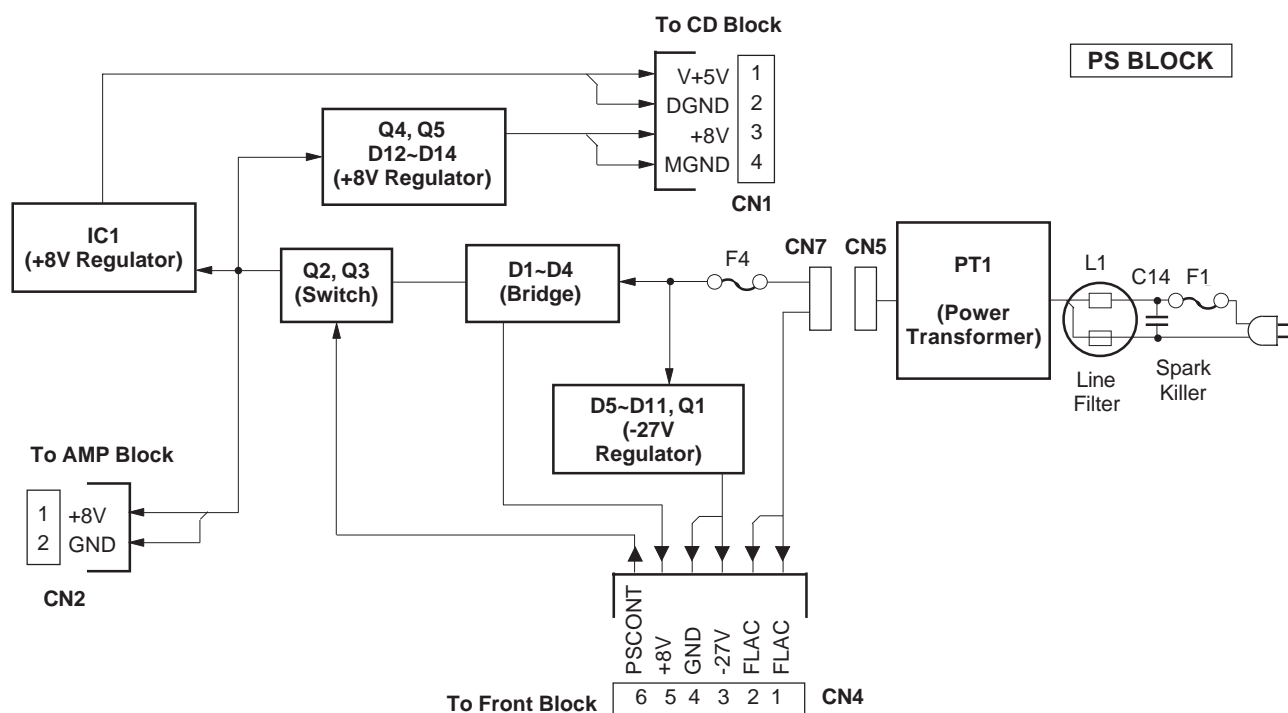
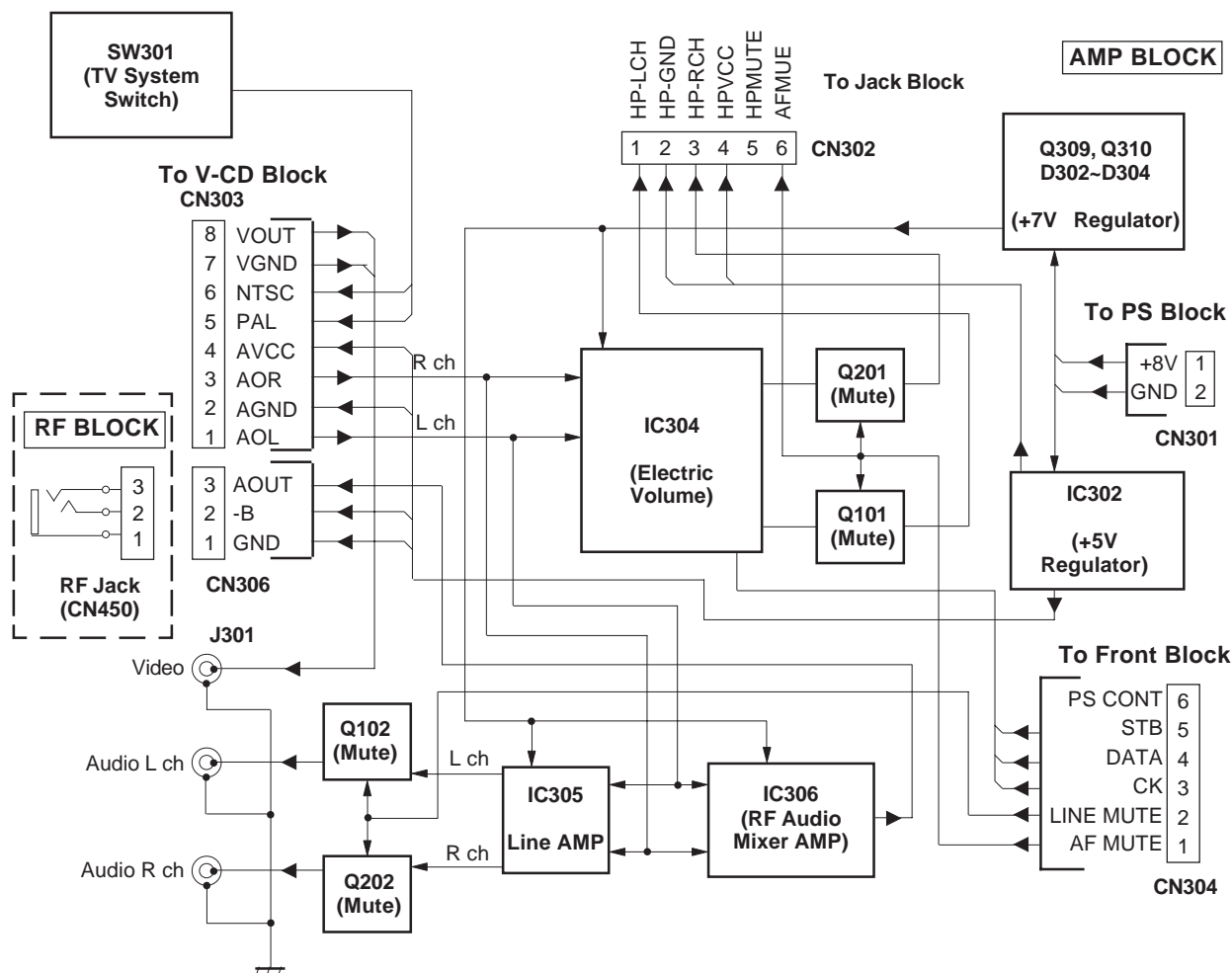
To
CD Block



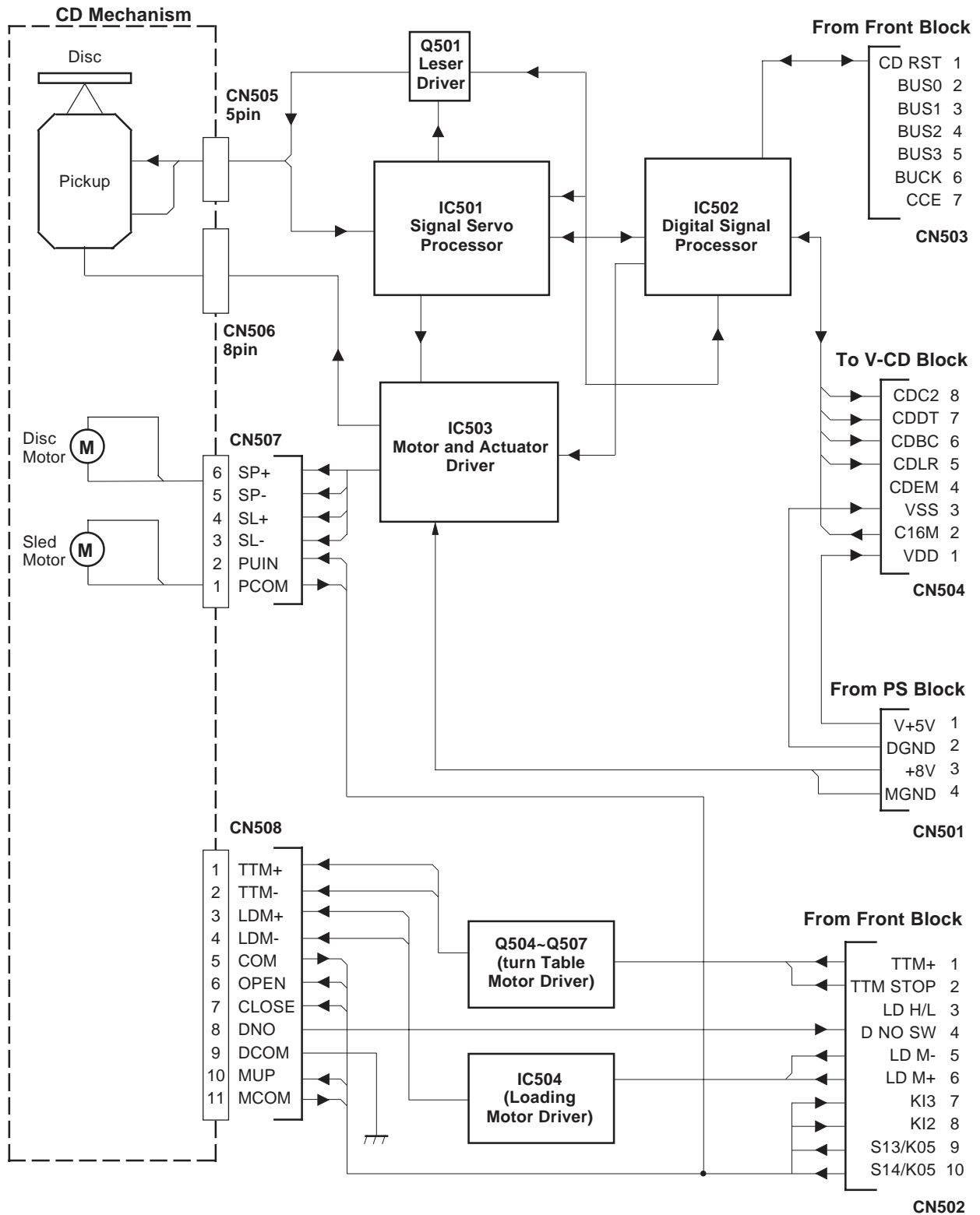
Front, VR, Jack



AMP, PS, RF



CD



CD ADJUSTMENTS

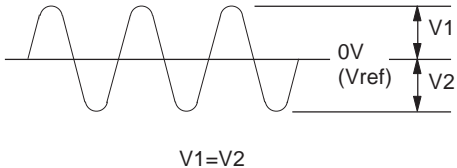
Pre-Adjustment Procedures

- Remove the bottom chassis assembly. (Refer pages 1, 2)
- Use the plastic screwdriver.

Equipment Required

- Oscilloscope
- The Regular Disc (ABEX-784)

Tracking Adjustment (Figures 7 and 9)

Step	Connect	Setting	Adjust	Result
1	See Figure 7	Play the regular disc.	VR501	
2		Pusing “>>” or “<<” key. Set the FF or FB mode.		

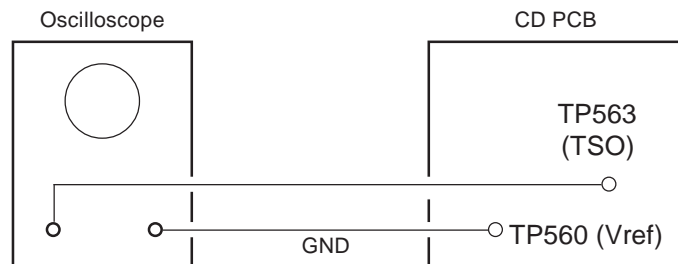
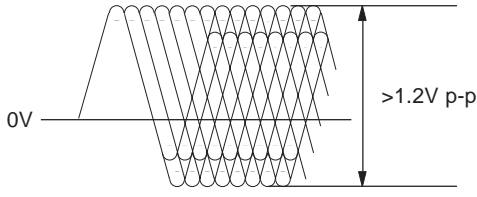


Figure 7

RF Adjustment (Figures 8 and 9)

Step	Connect	Setting	Adjust	Result
1	See Figure 8	Play the regular disc.	VR502	<p>Adjust VR502 for the amplitude of the waveform at maximum.</p>  <p>Measuring on oscilloscope.</p>

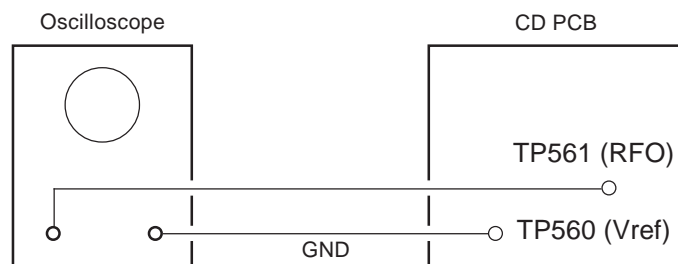
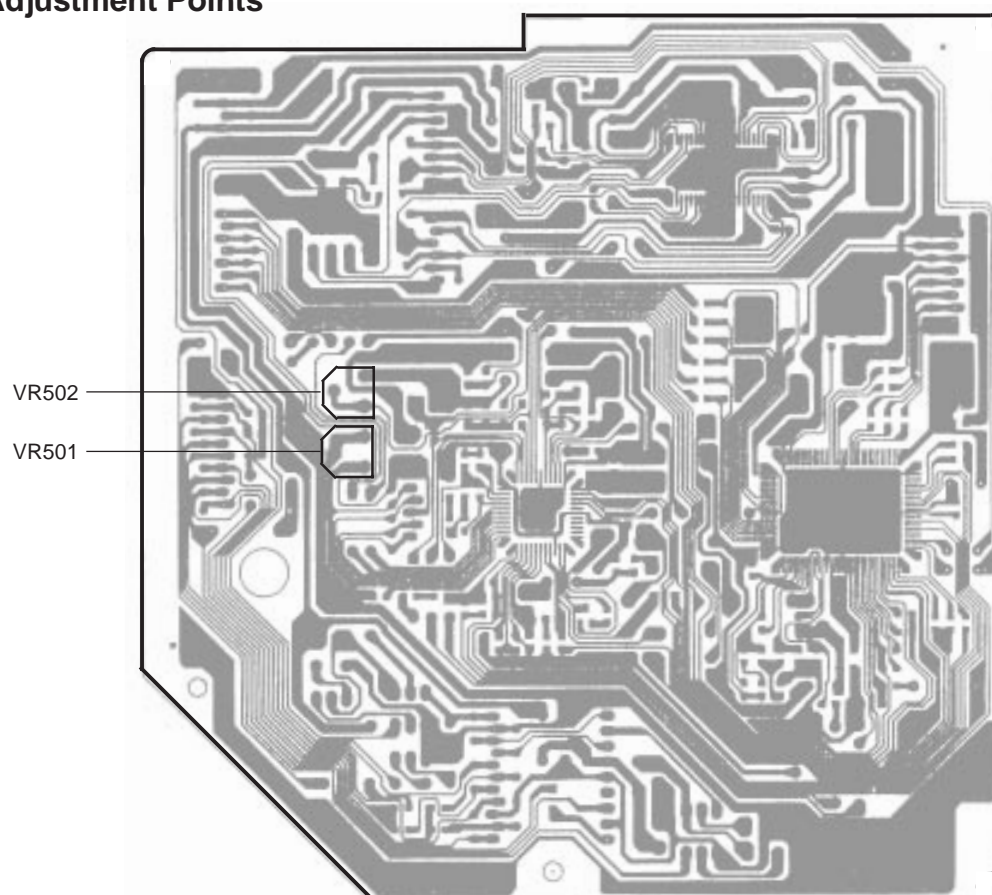
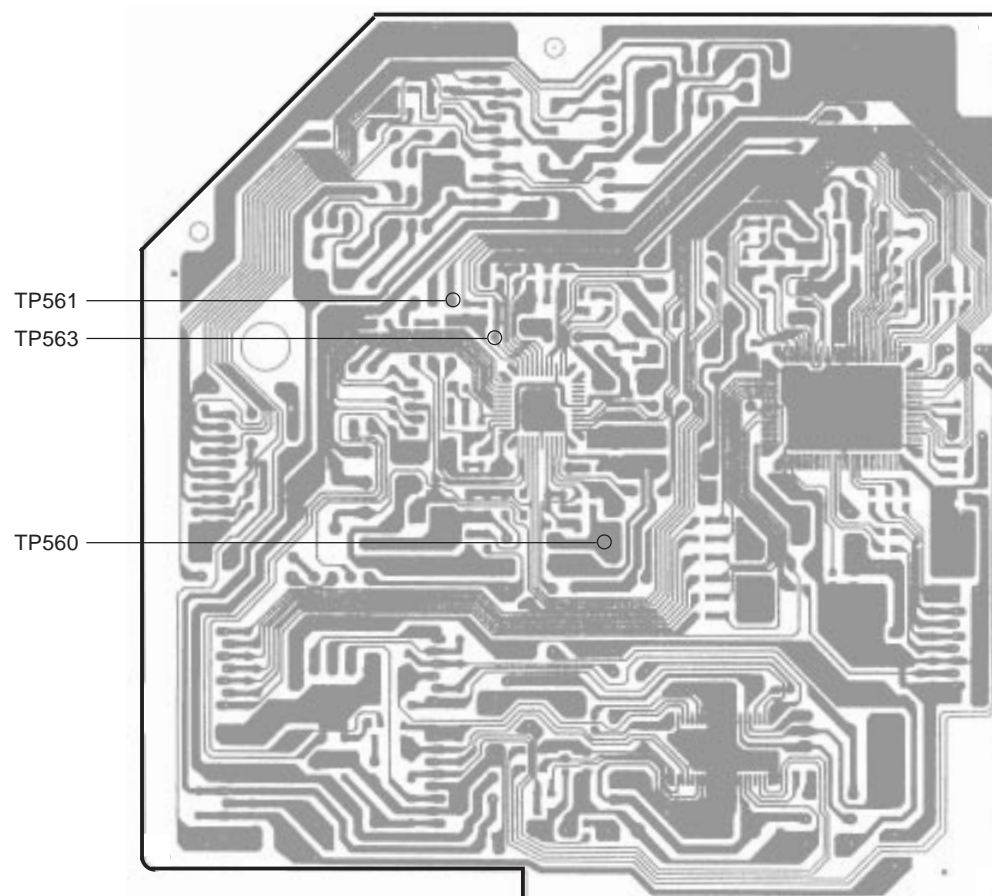


Figure 8

CD Adjustment Points



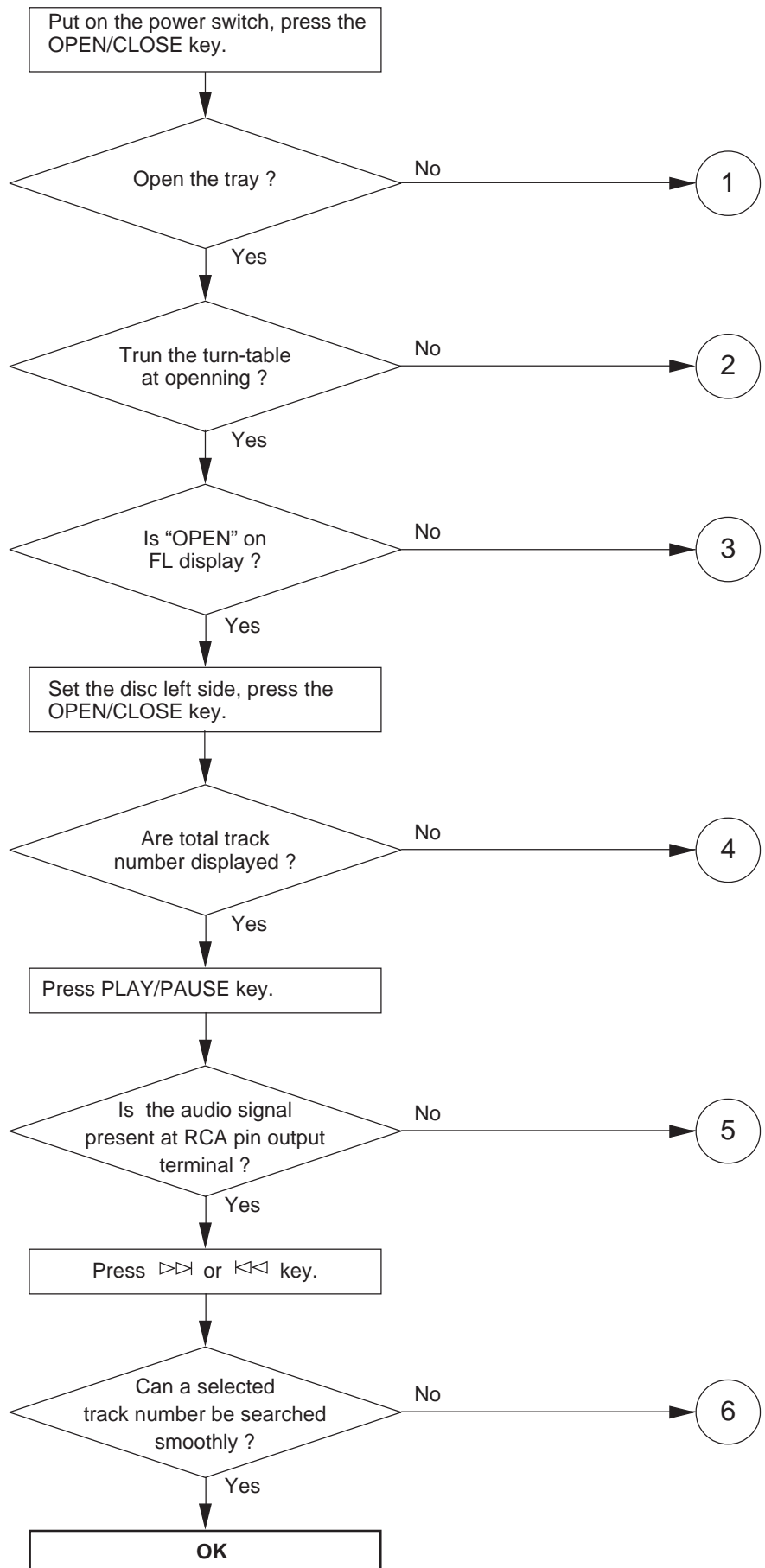
CD PCB Top View



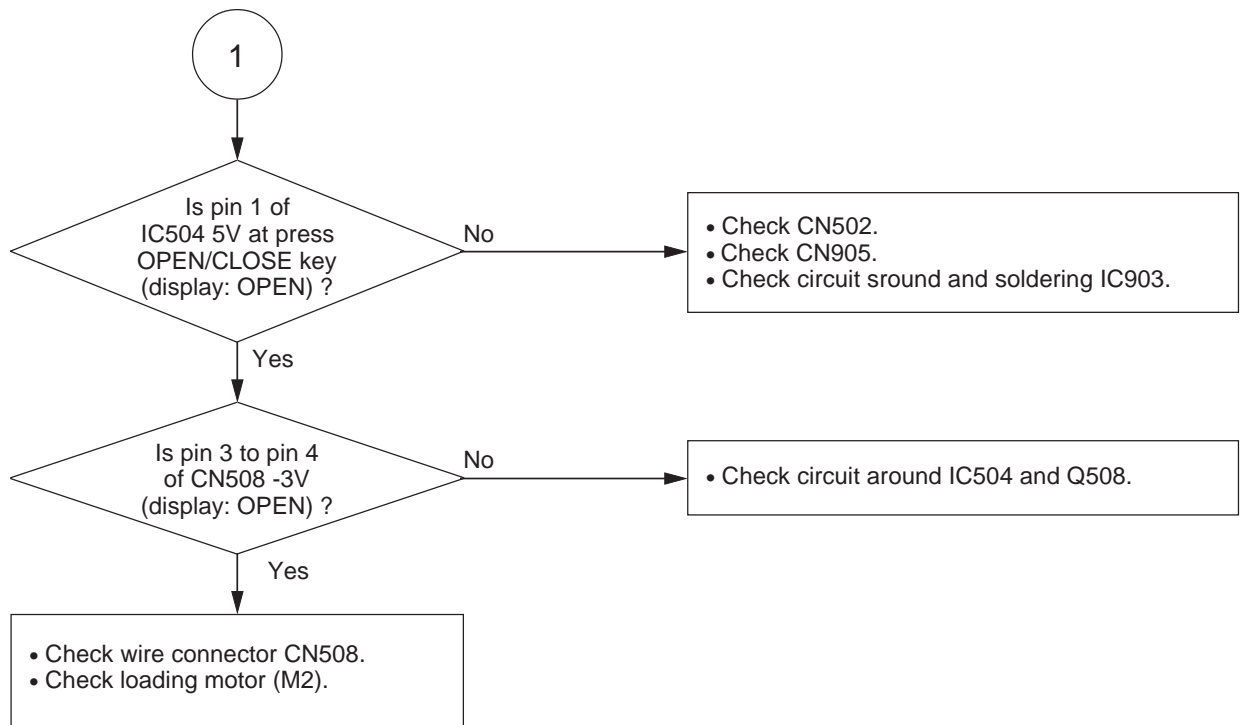
CD PCB Bottom View

Figure 9

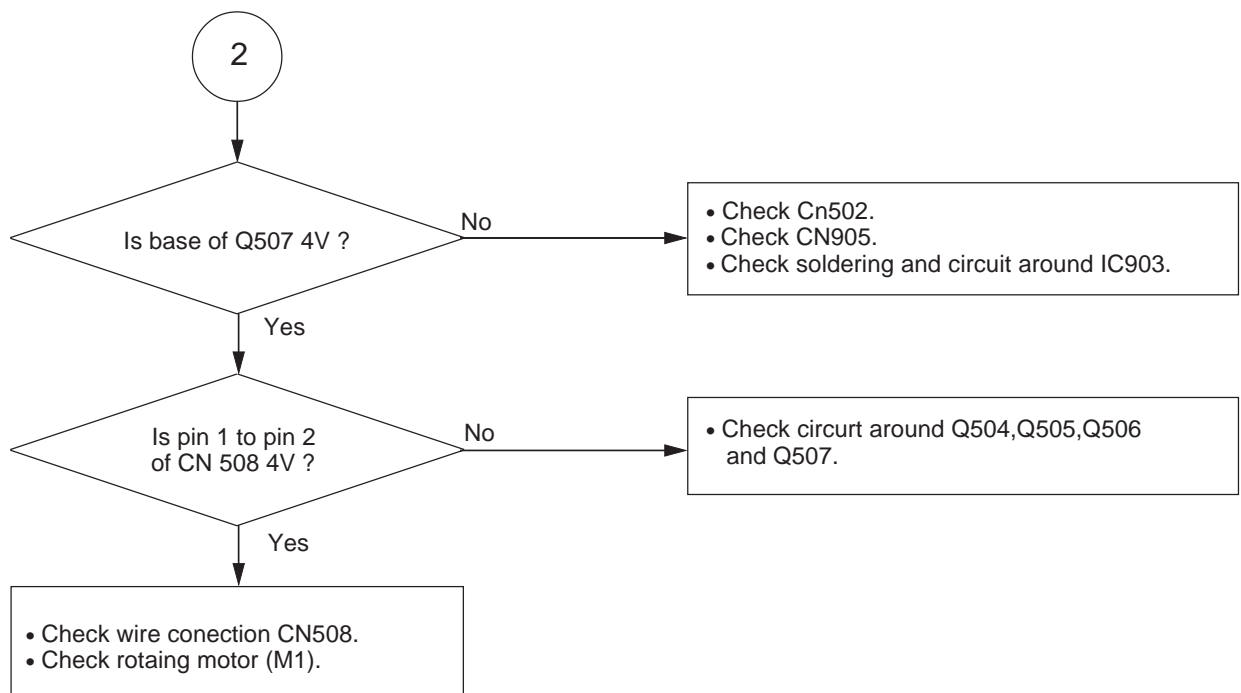
CD TROUBLESHOOTING



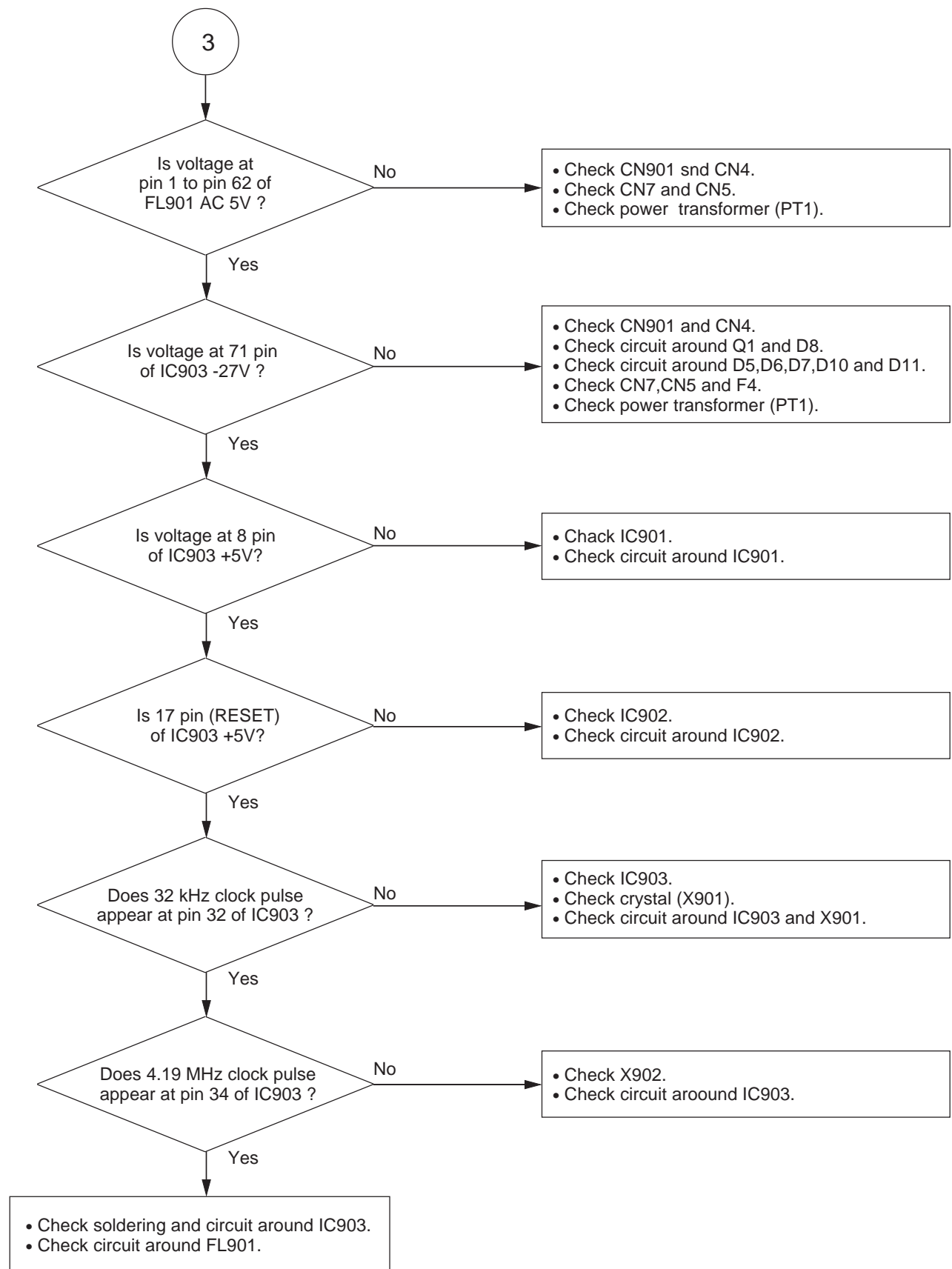
1. Tray does not open.



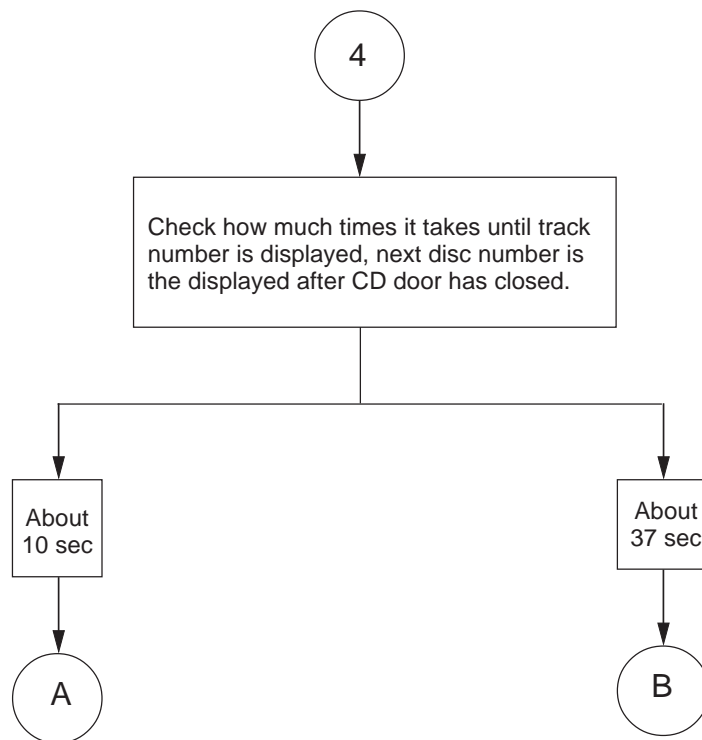
2. Turn-table does not turn.



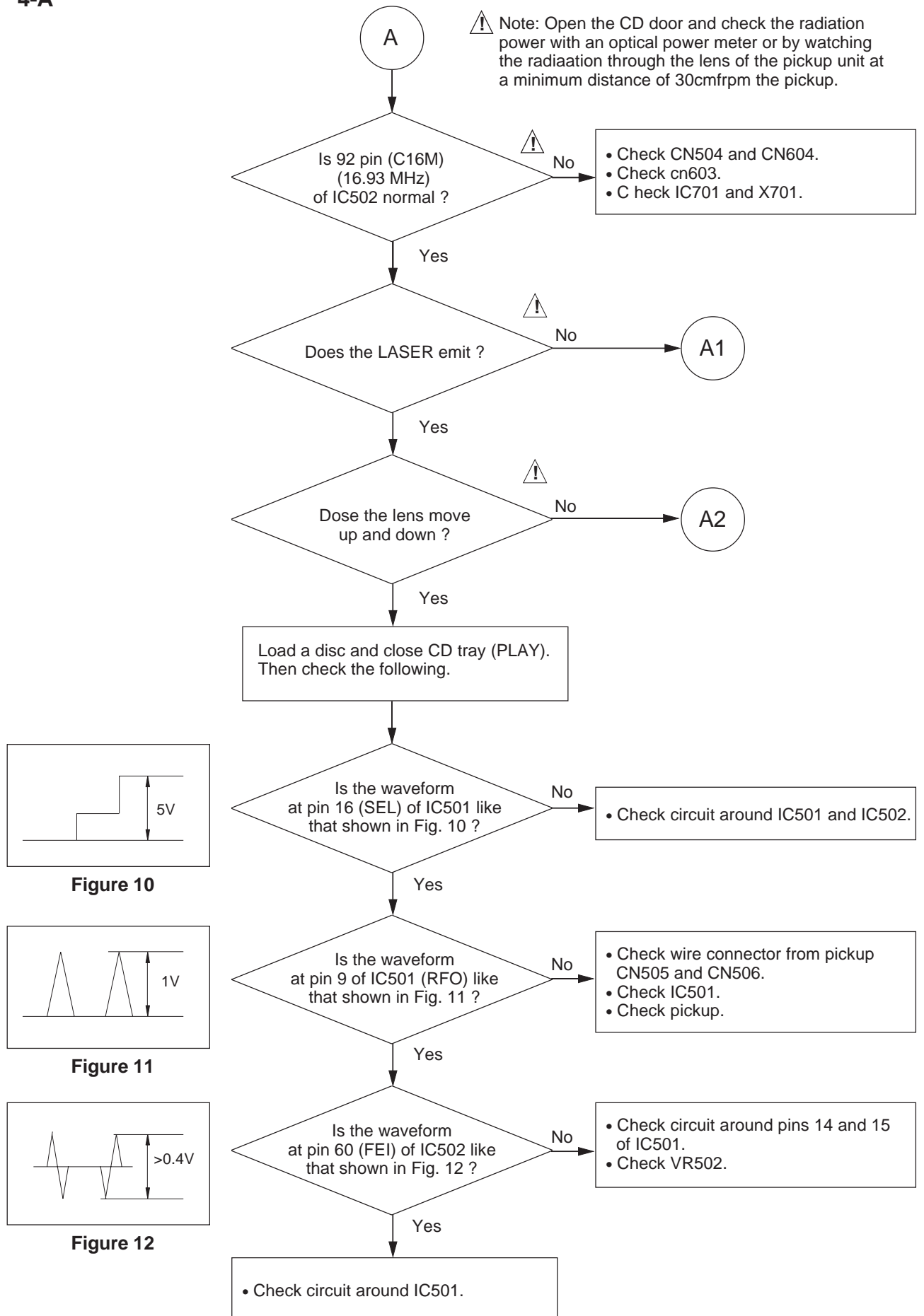
3. At power on, does not FL displayed.



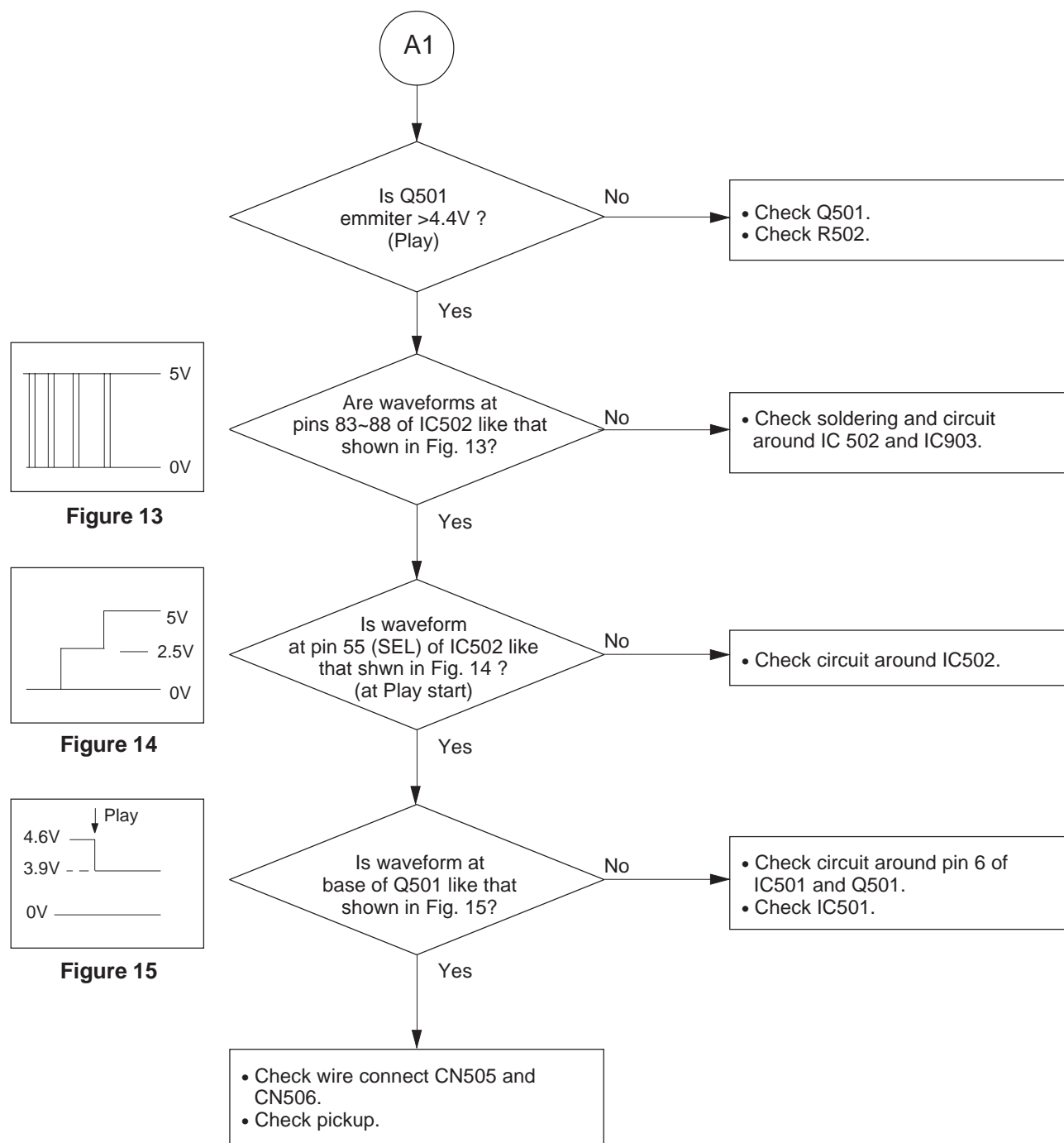
4. Total track number is not displayed.



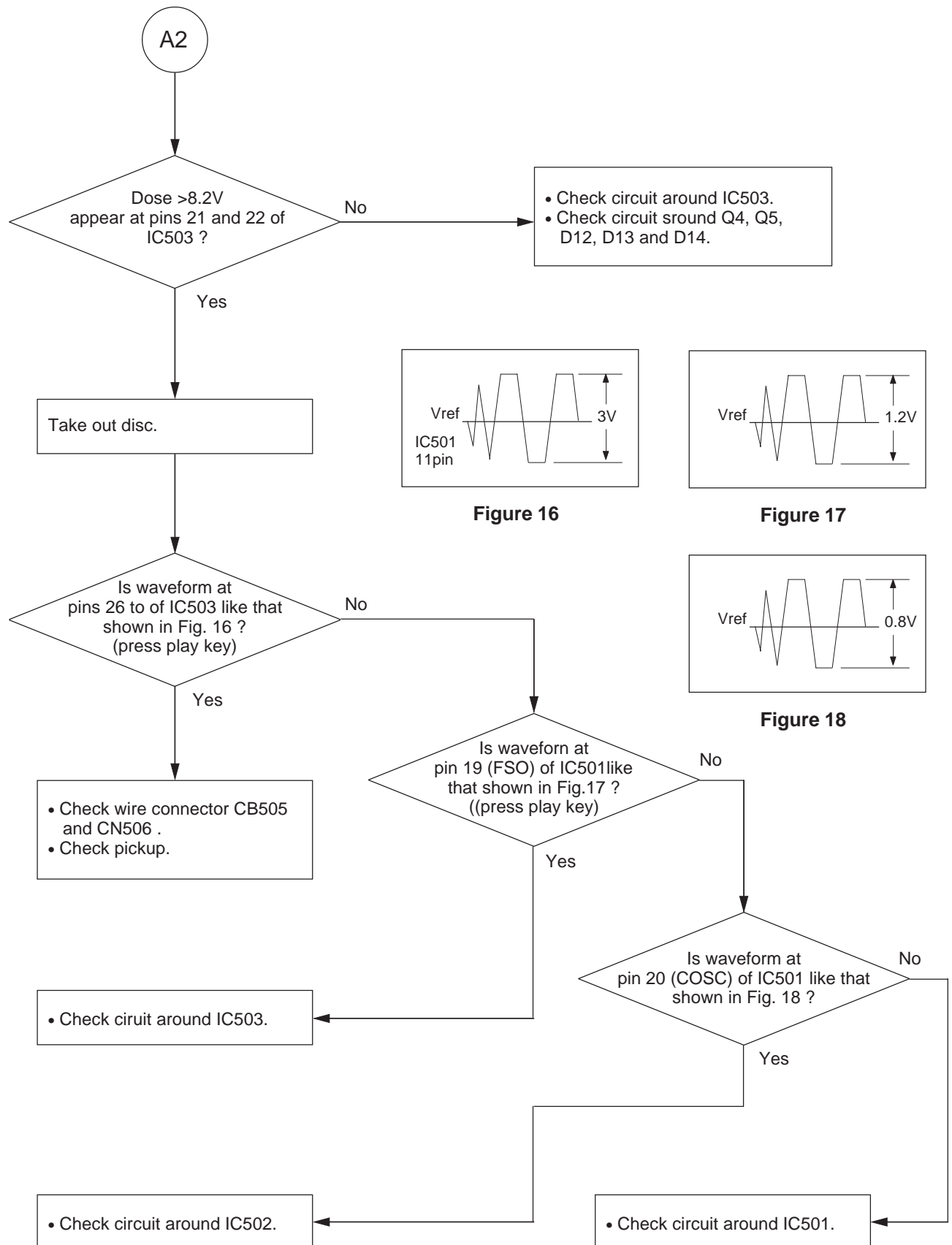
4-A



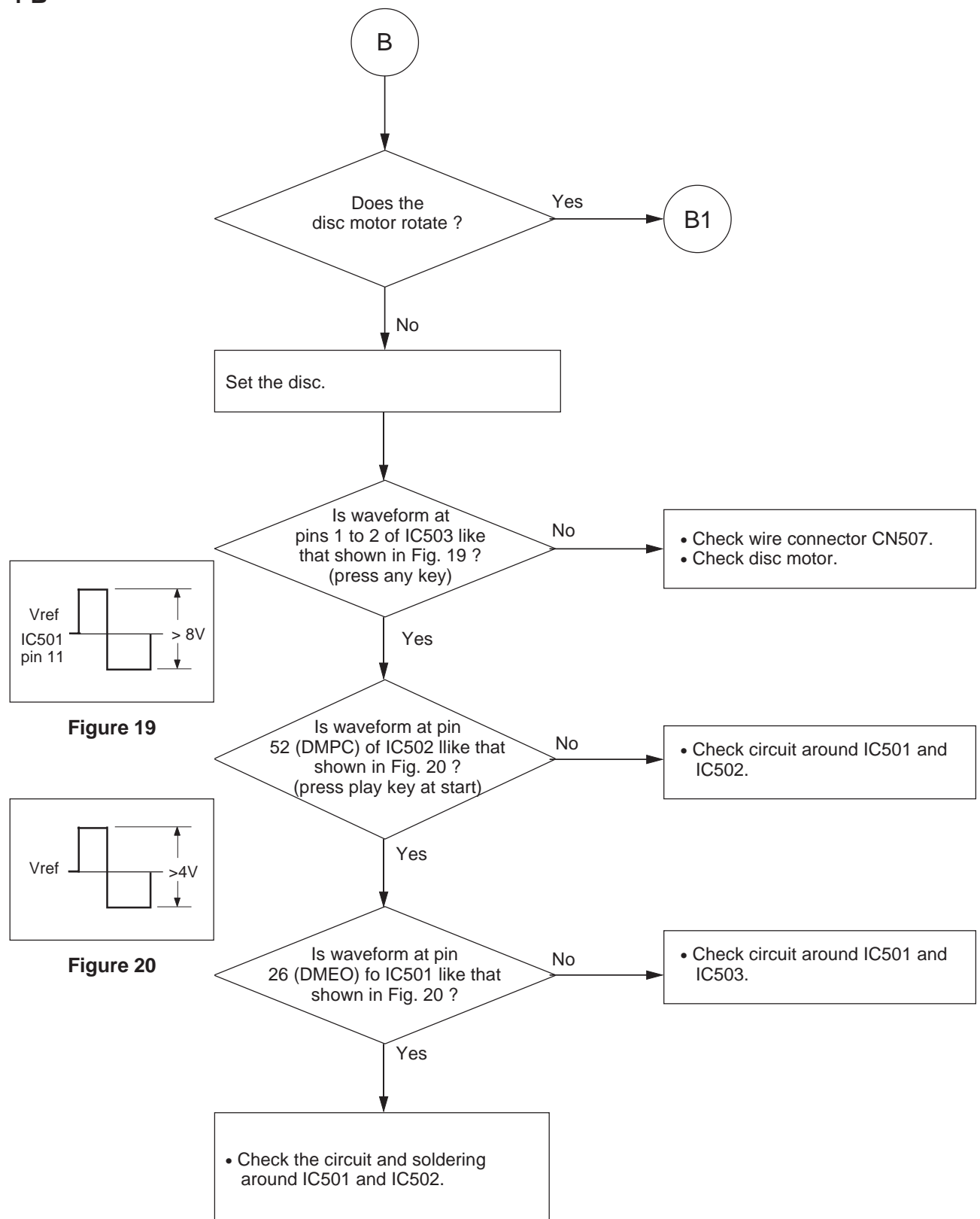
4-A1



4-A2



4-B



4-B1

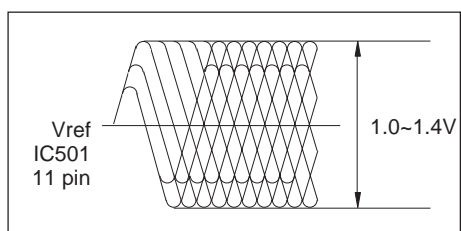
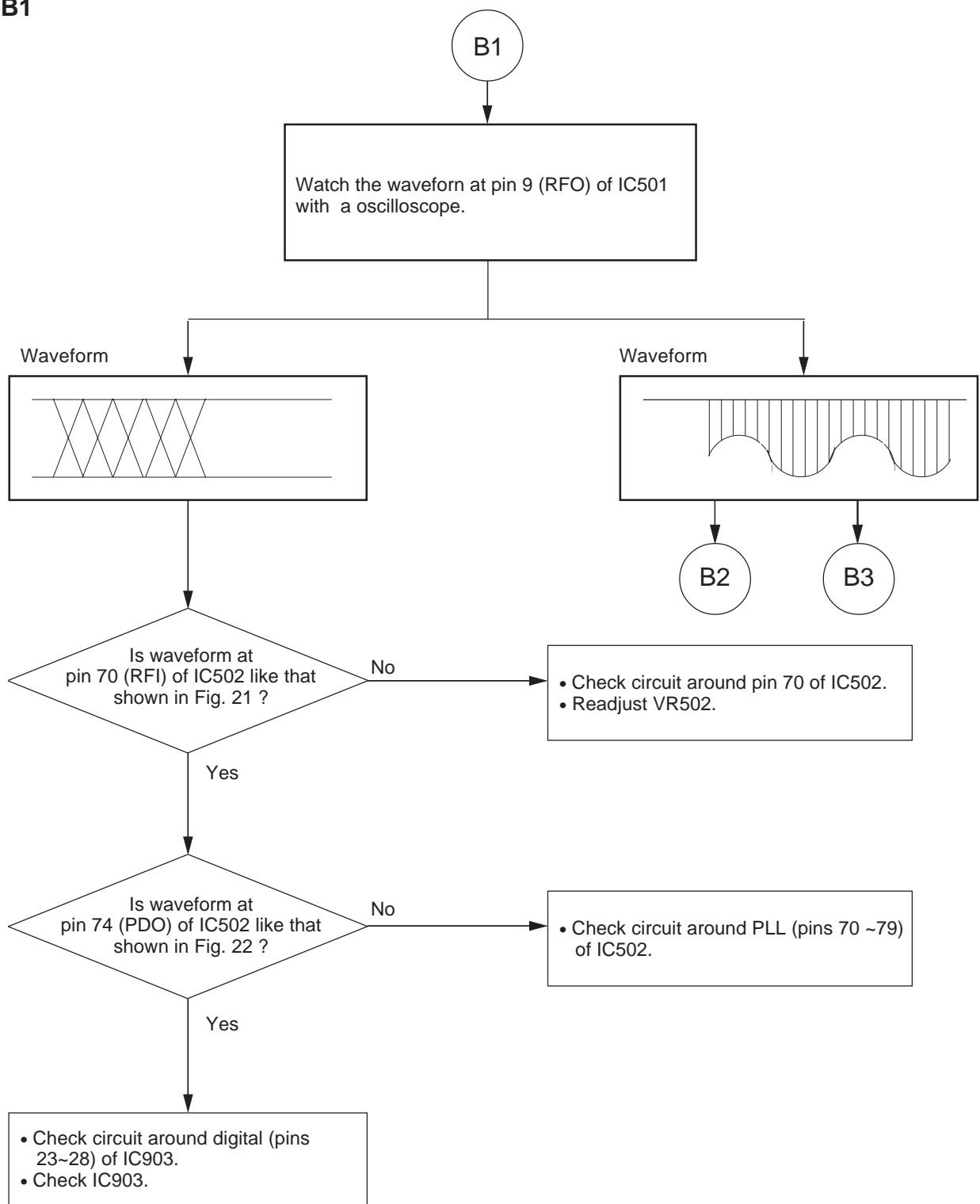


Figure 21

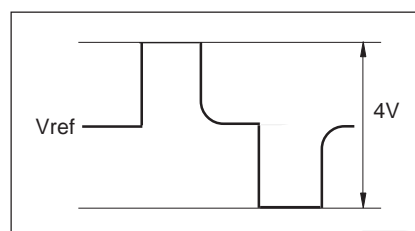


Figure 22

4-B2, B3

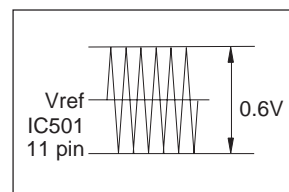
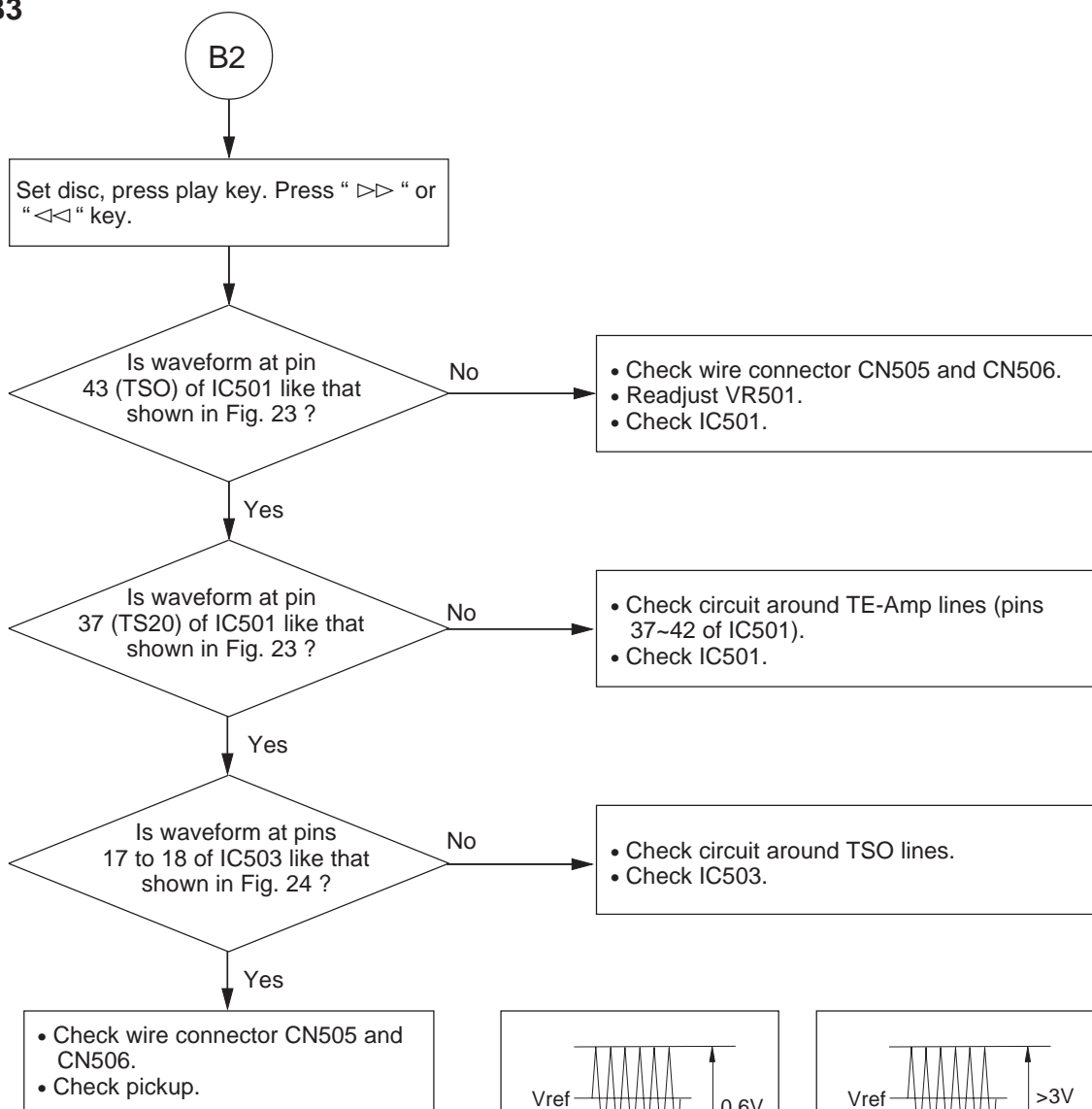


Figure 23

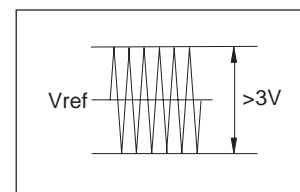
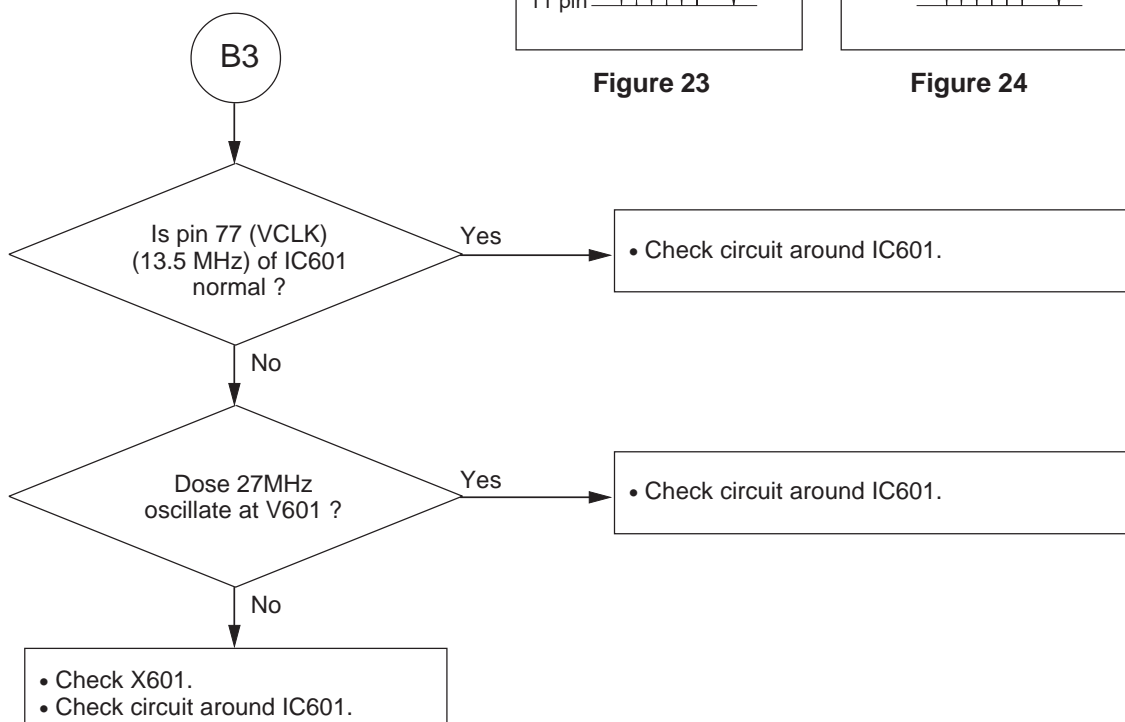
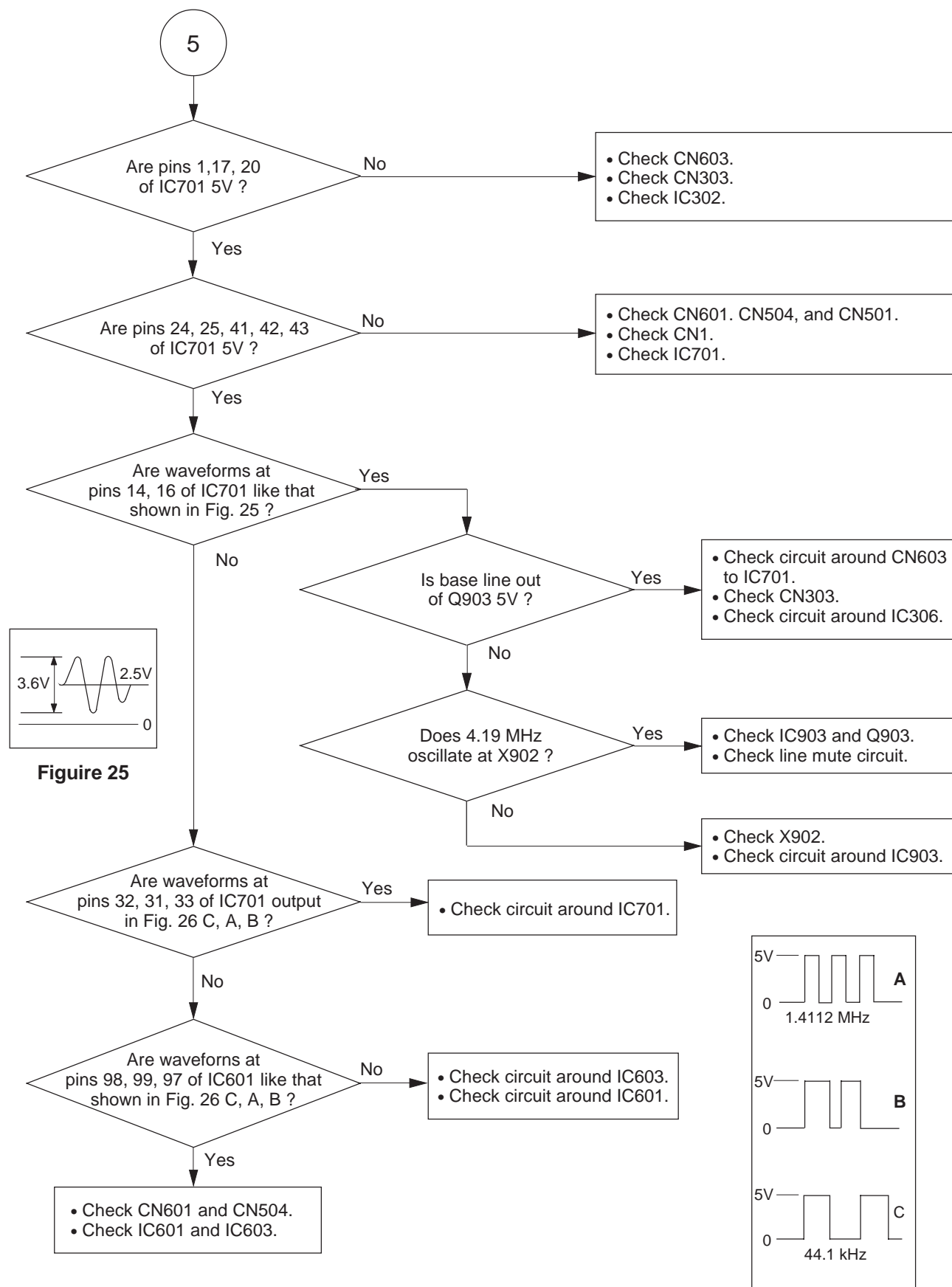


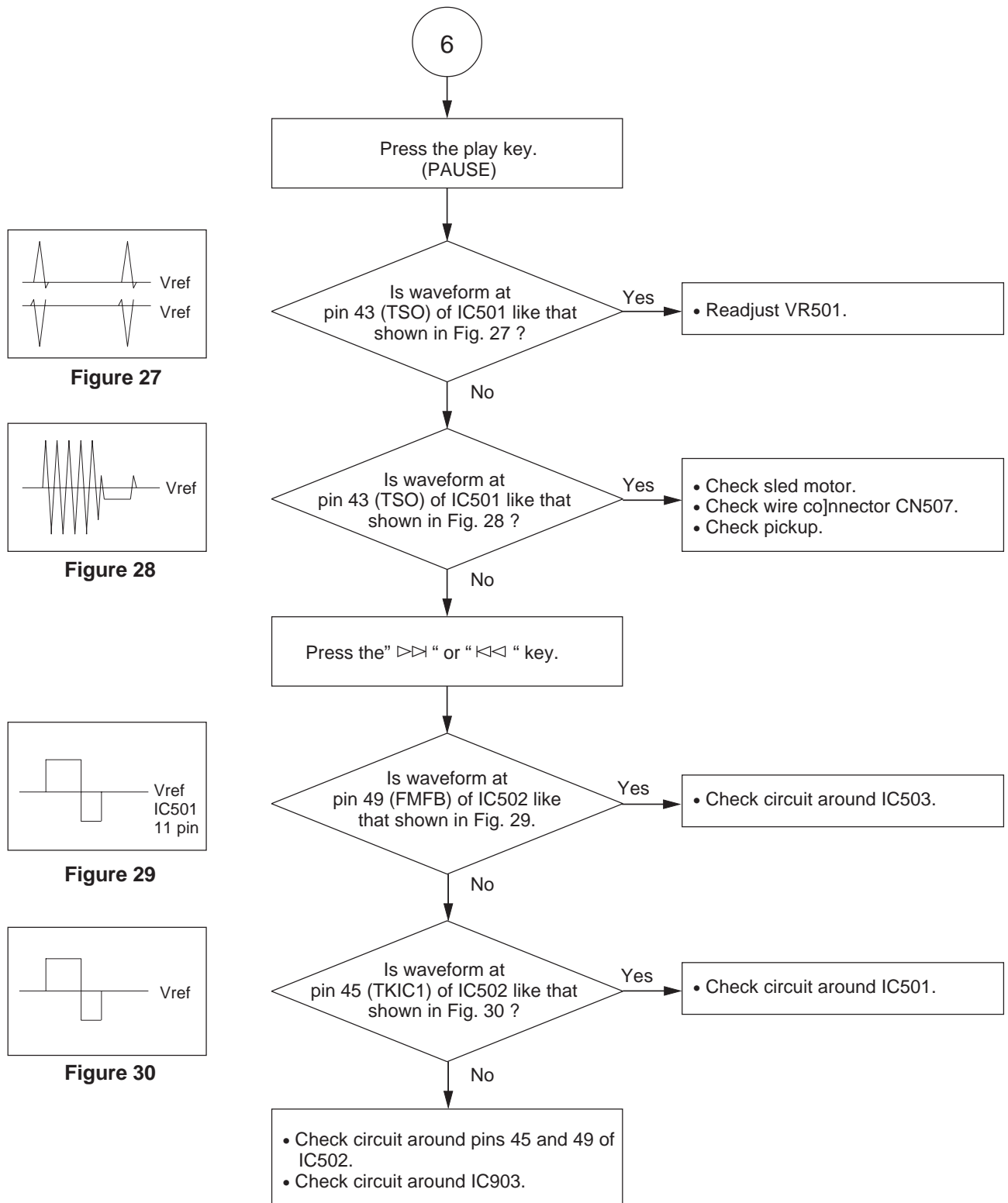
Figure 24



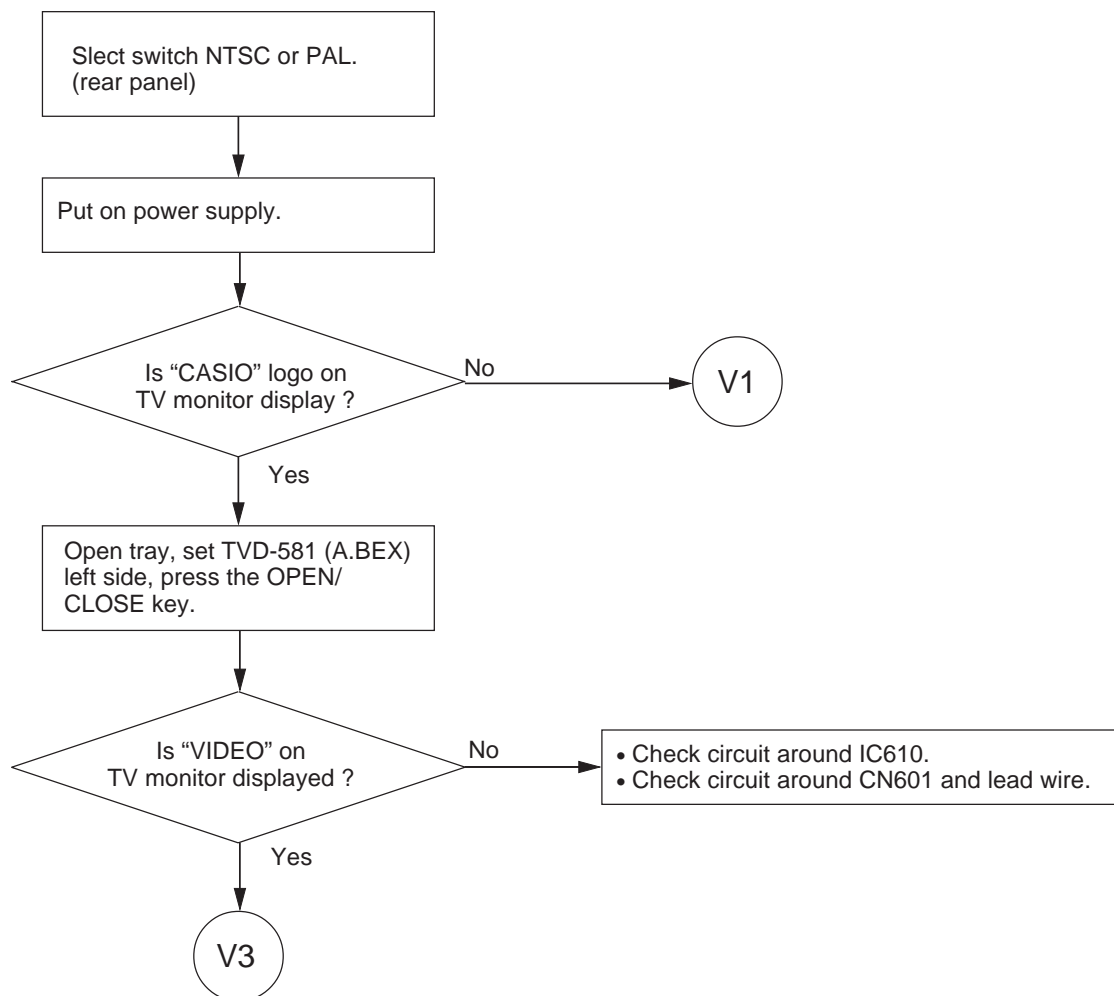
5. No audio signal to RCA pin jack output terminal.



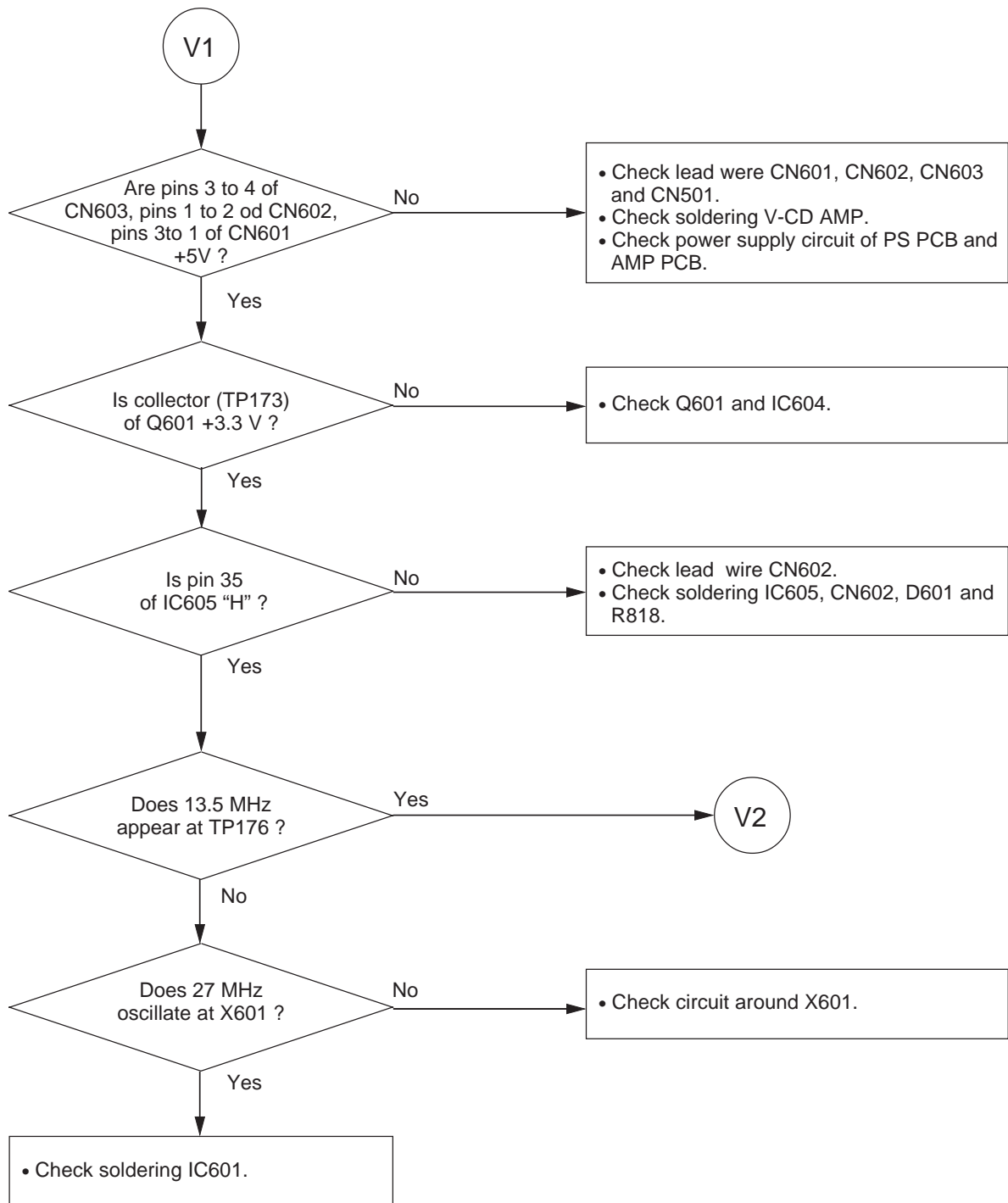
6. Selected track number cannot be searched.



VIDEO CD TROUBLESHOOTING



V1



V2

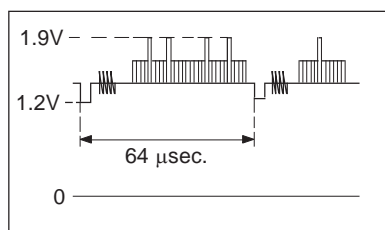
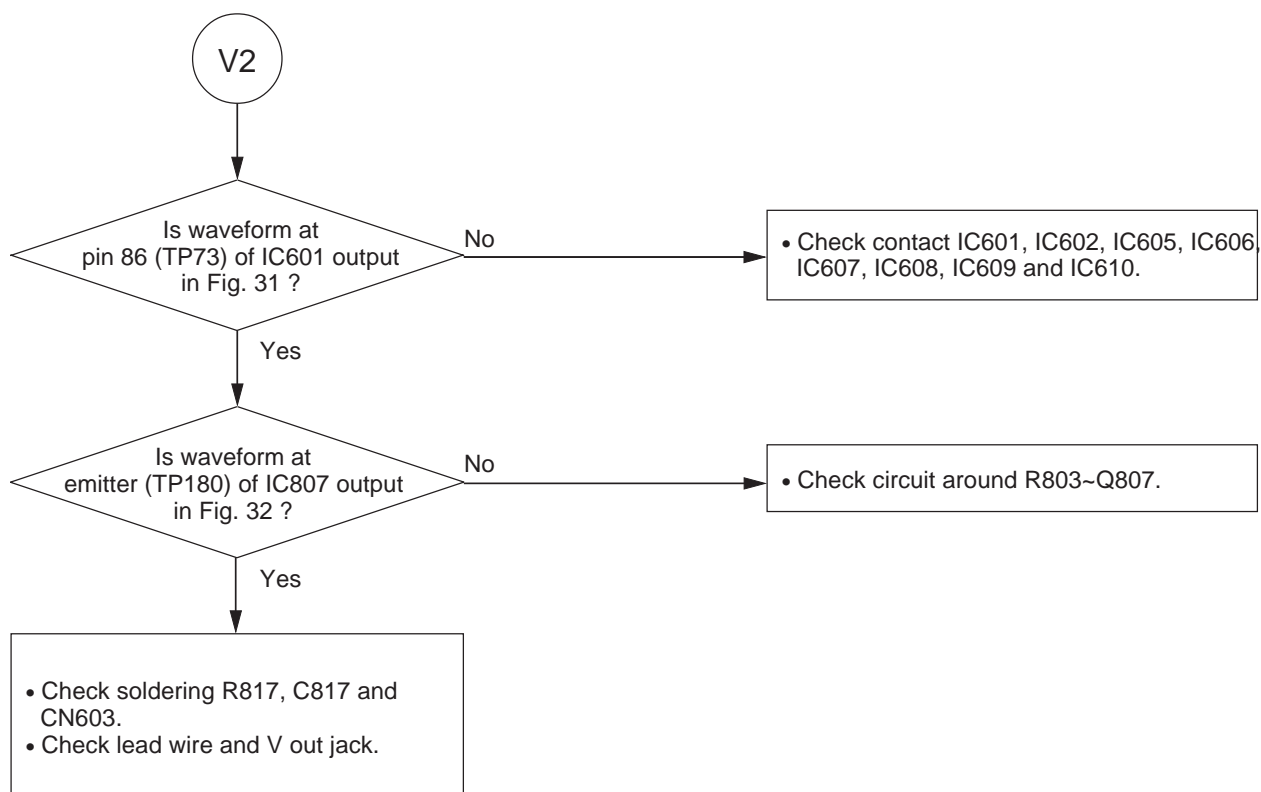


Figure 31

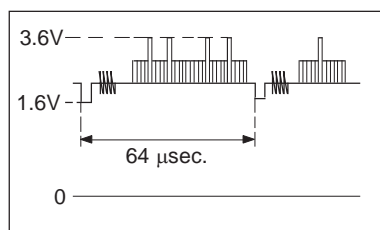
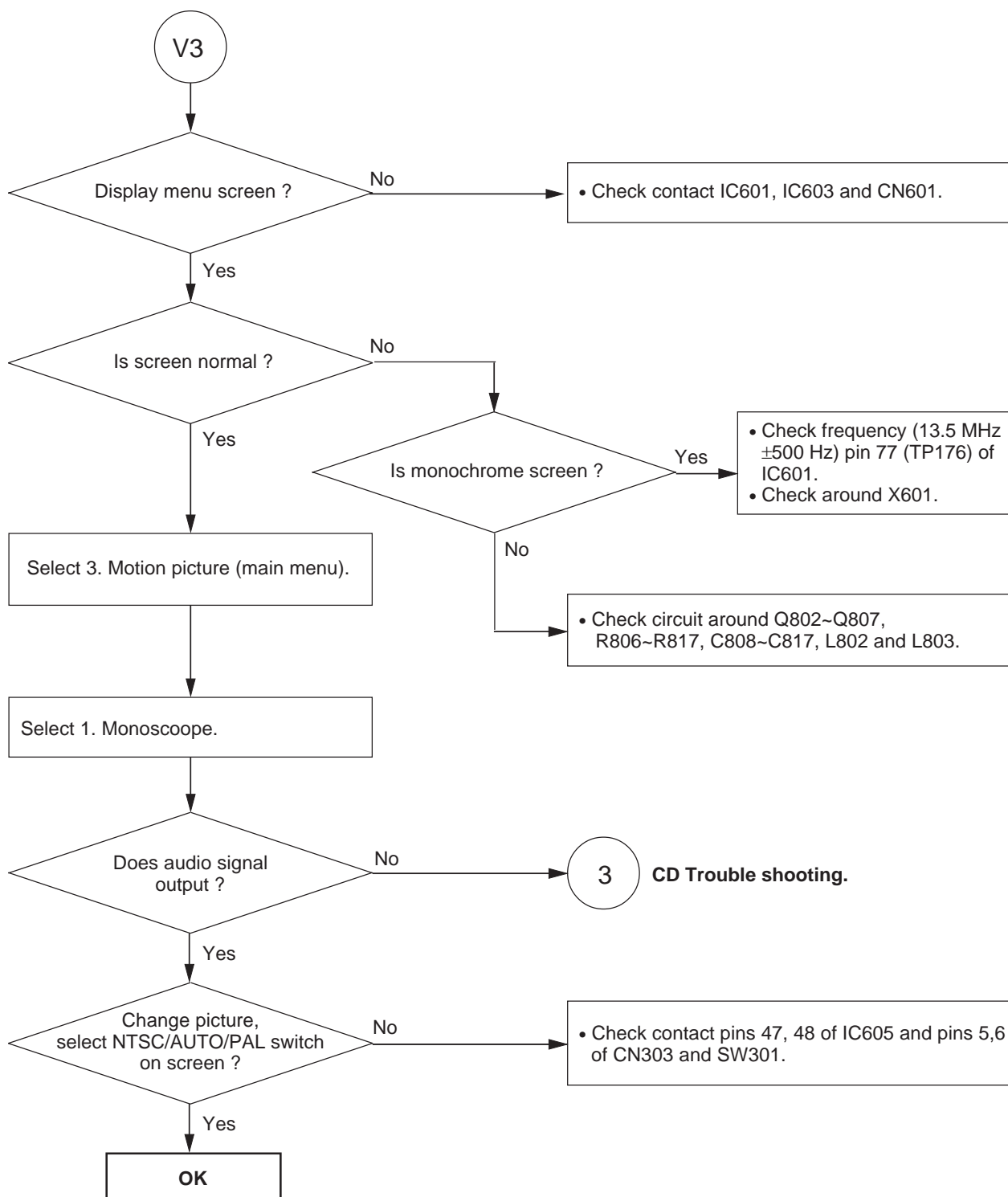


Figure 32

Waveform observation (Figure 31 and 32)

- Set the oscilloscope, adjust trigger level.
- trigger mode cupping: TV-H or HF reject.
- SLOPE-

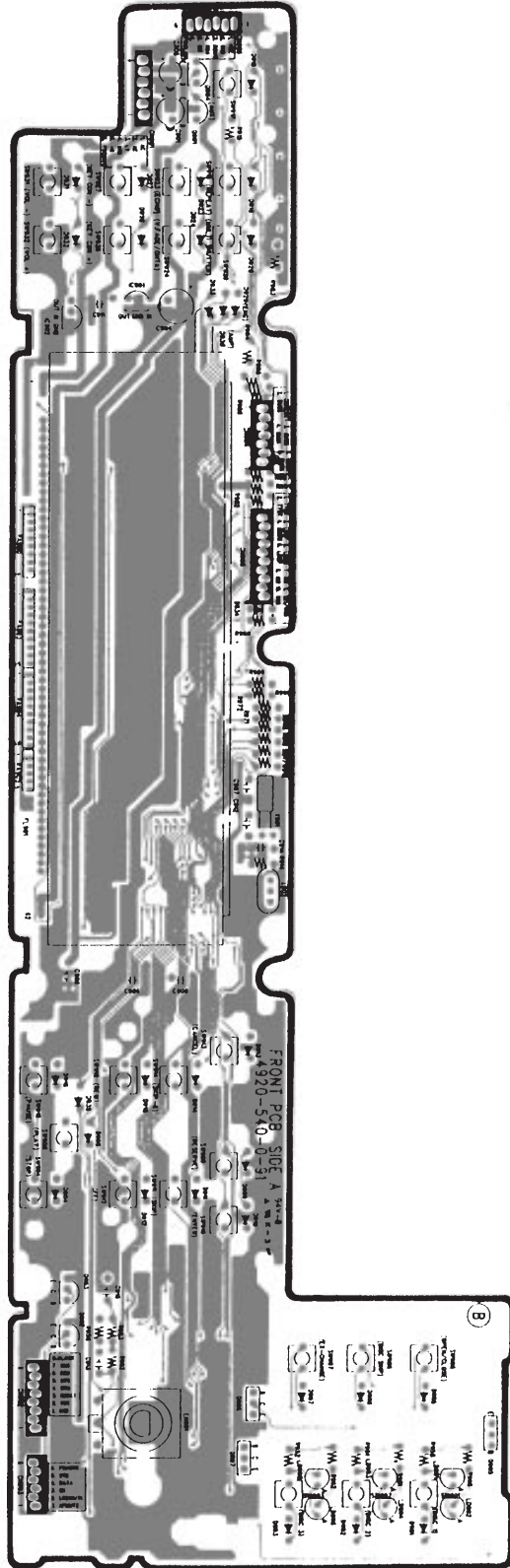
V3



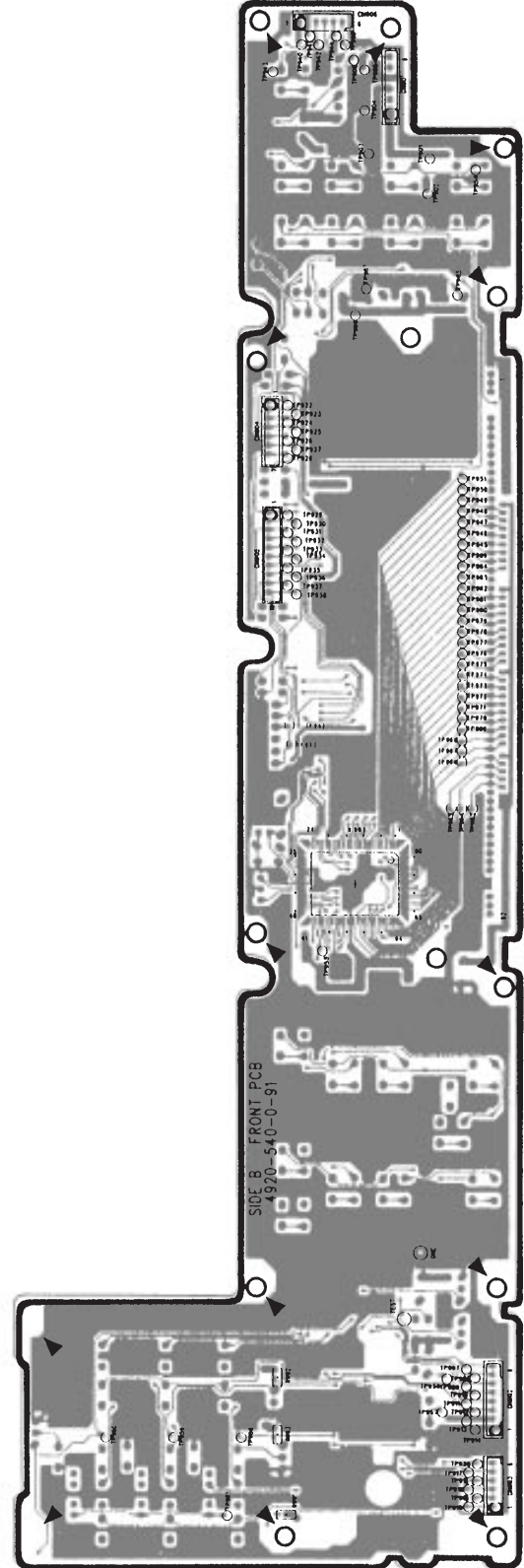
PCB VIEWS

Display PCB

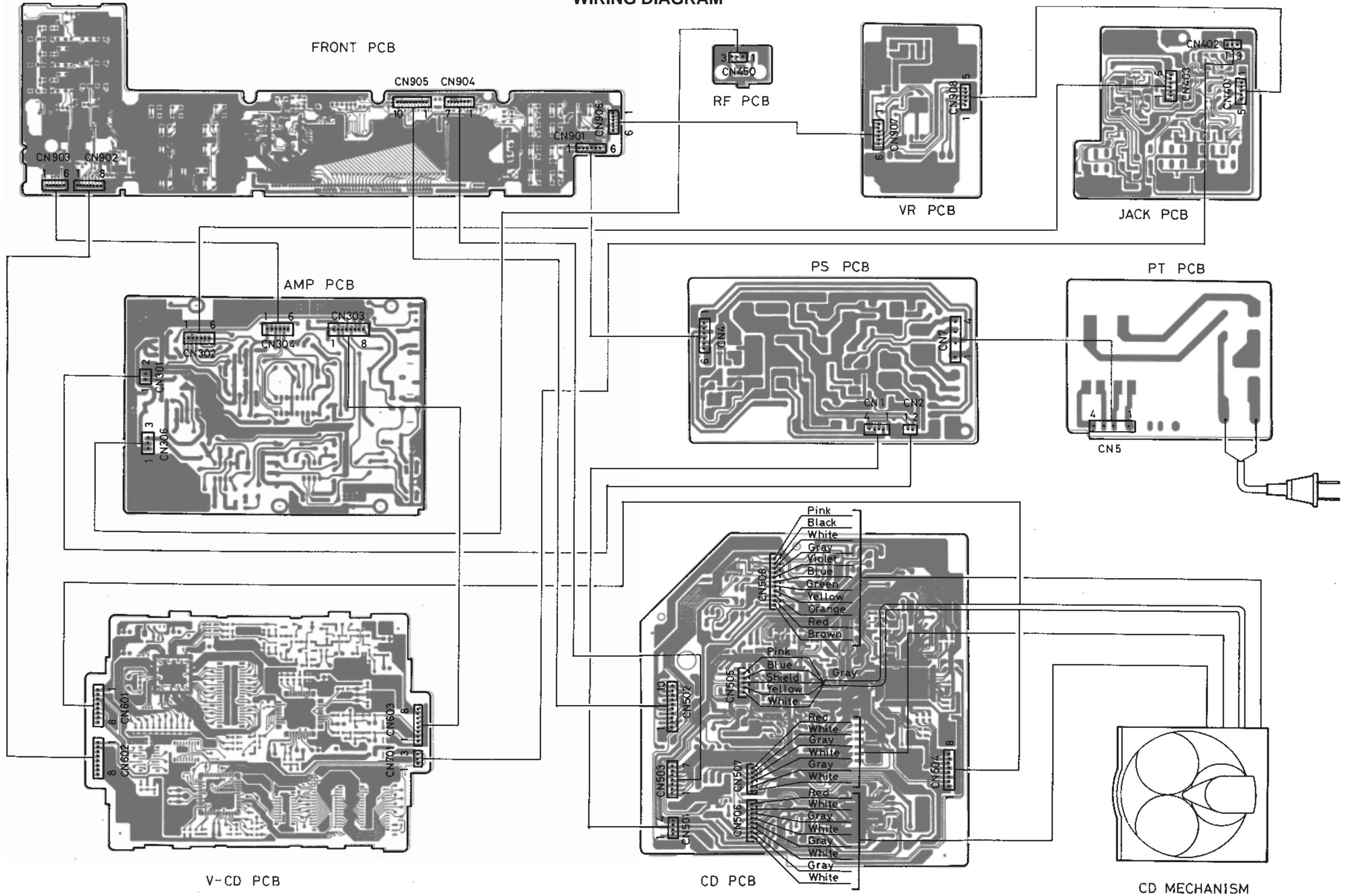
Top View



Bottom View

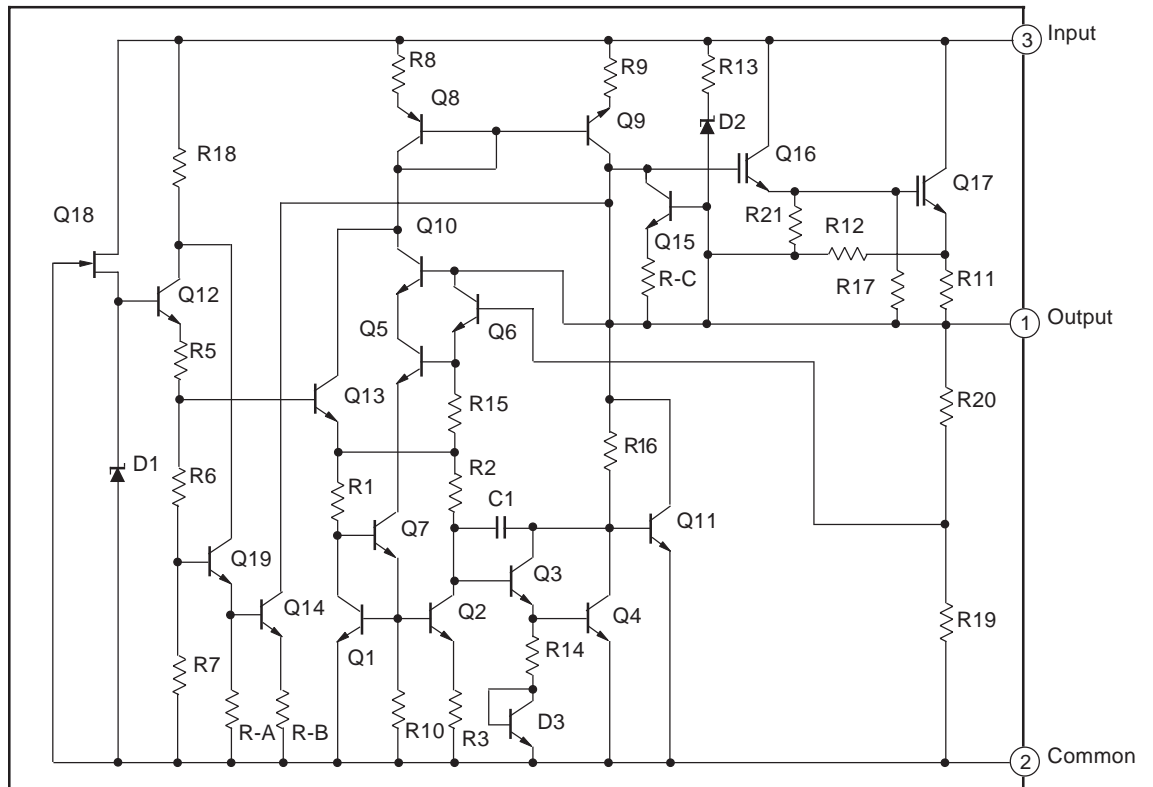
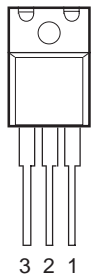


WIRING DIAGRAM

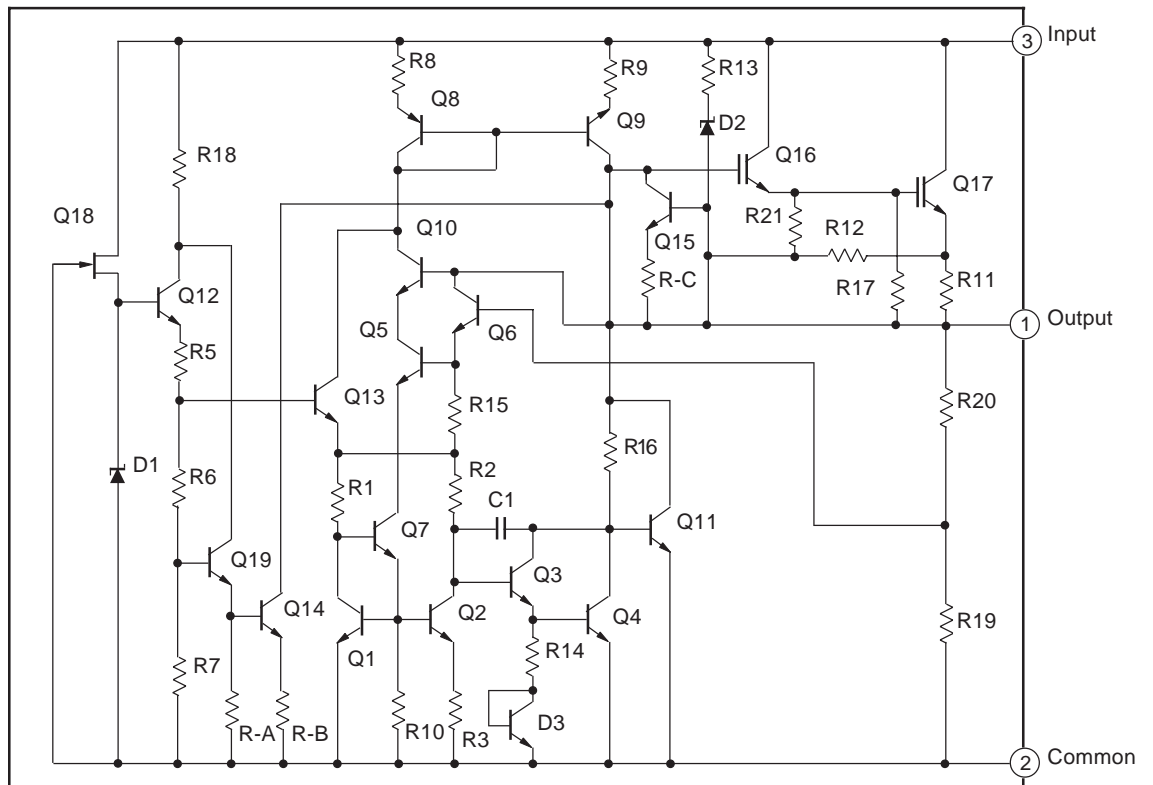
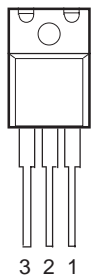


IC LEAD IDENTIFICATION AND INTERNAL DIAGRAMS

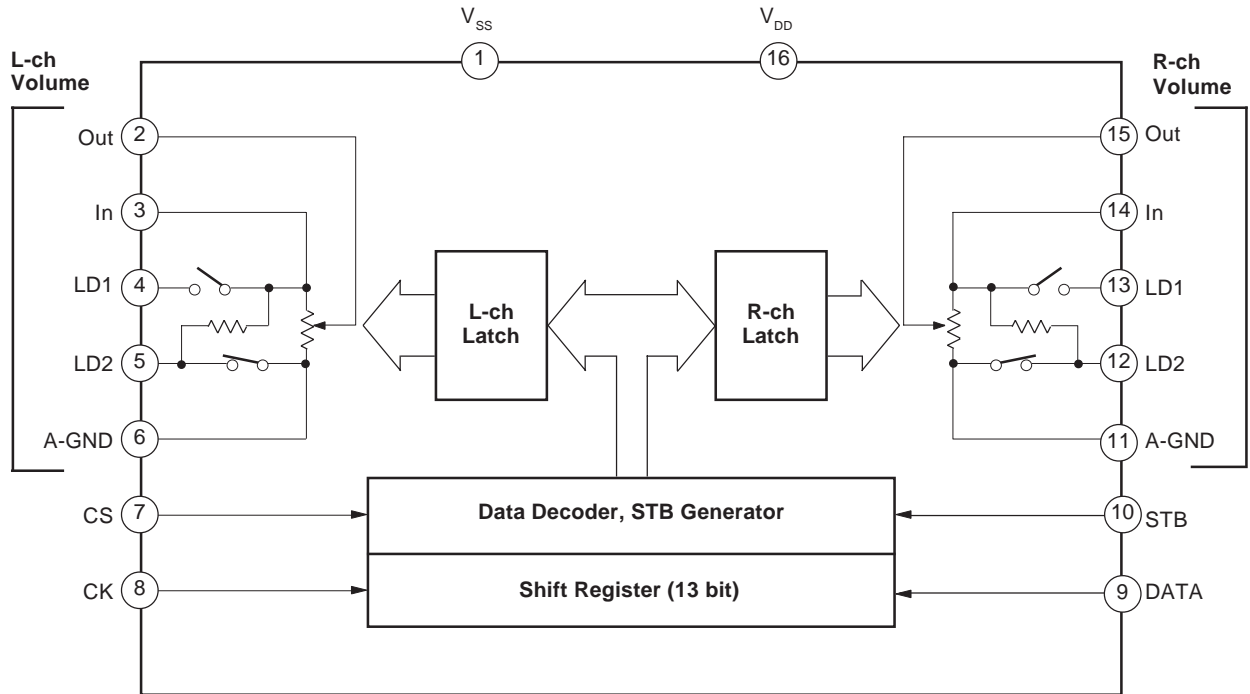
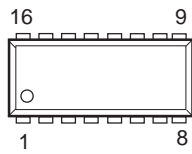
IC1: NJM78M05FA



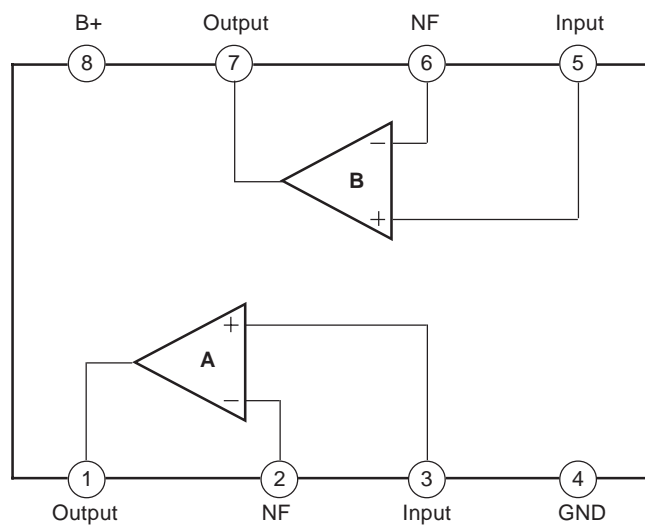
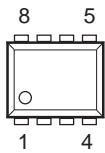
IC302: NJM7805FD



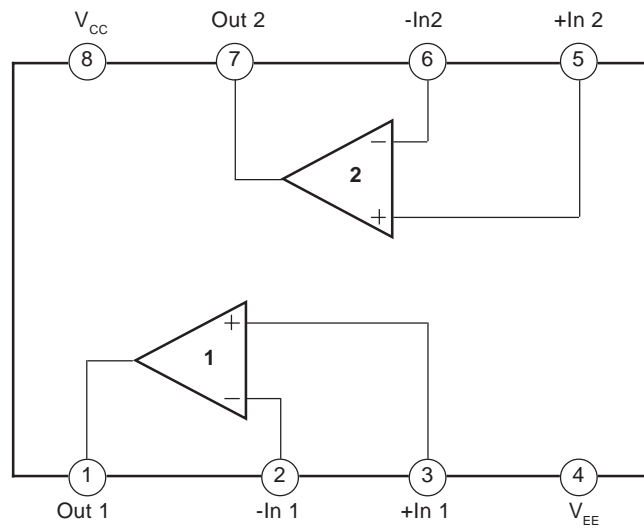
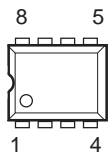
IC304: TC9260P



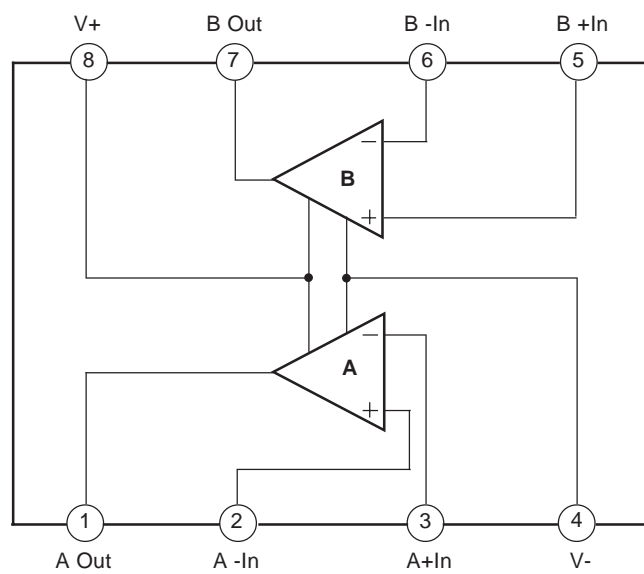
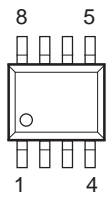
IC305, IC306: BA15218

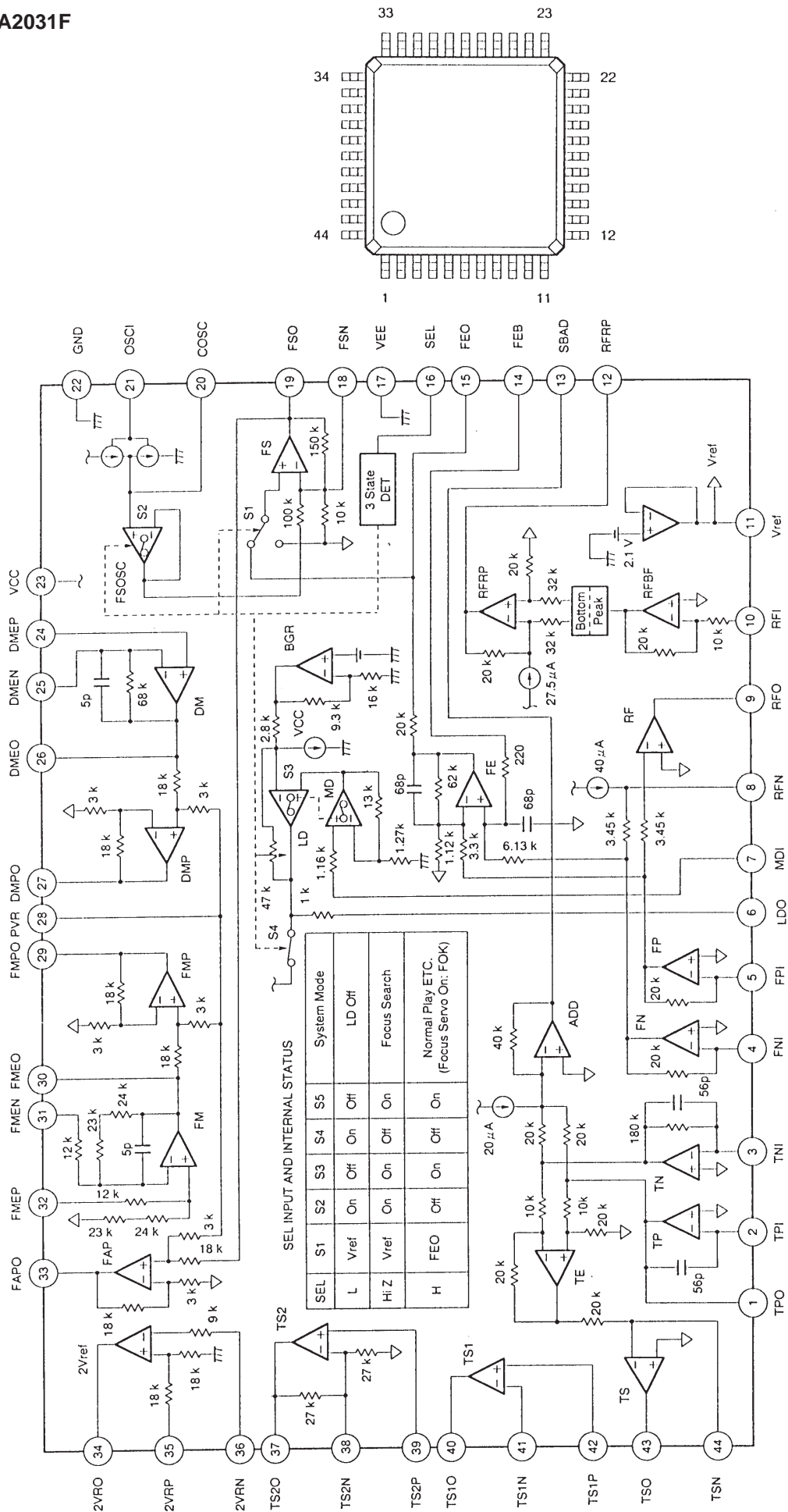


IC351, IC352: BA4510F

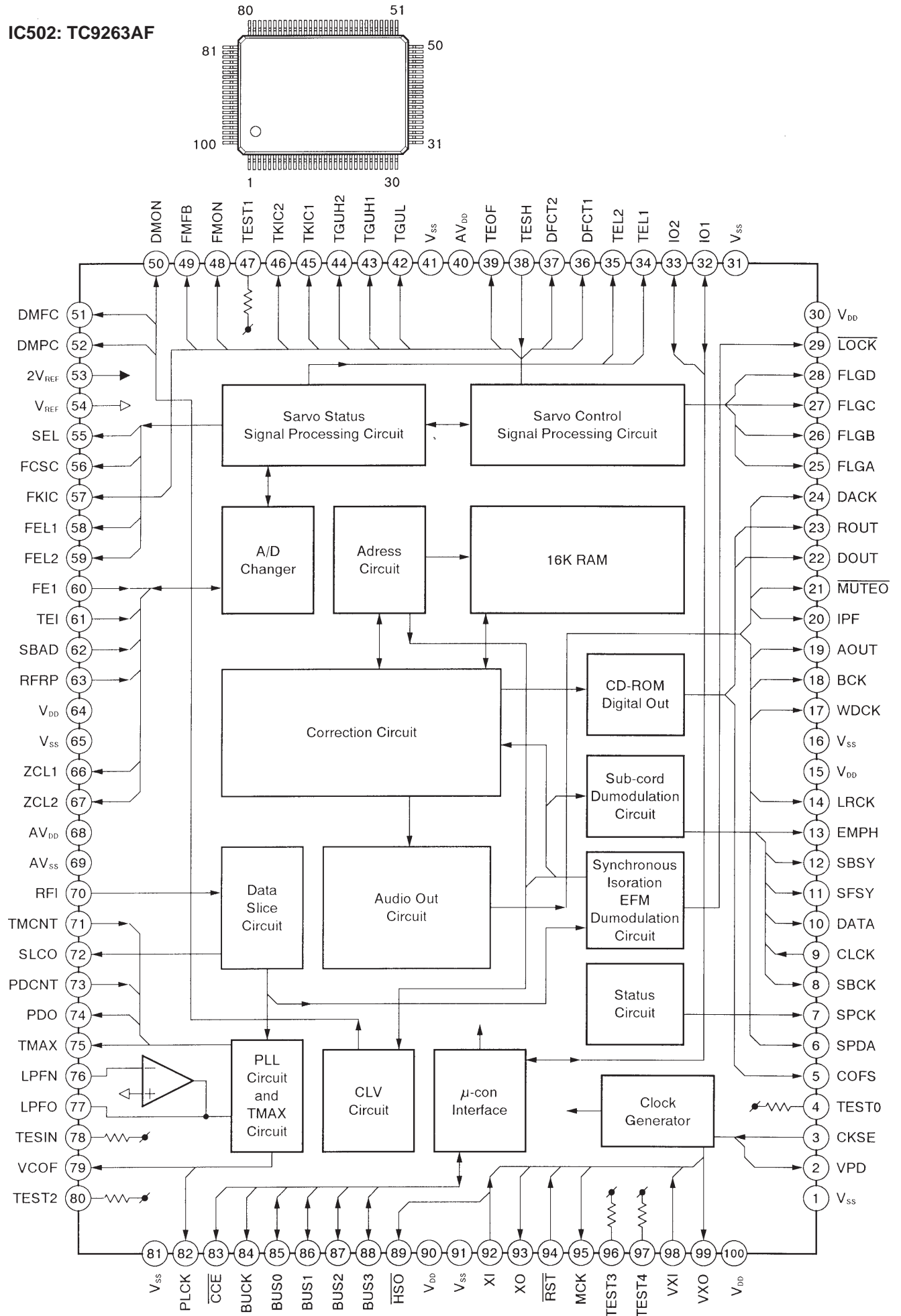


IC353: NJM3414AM-TE2

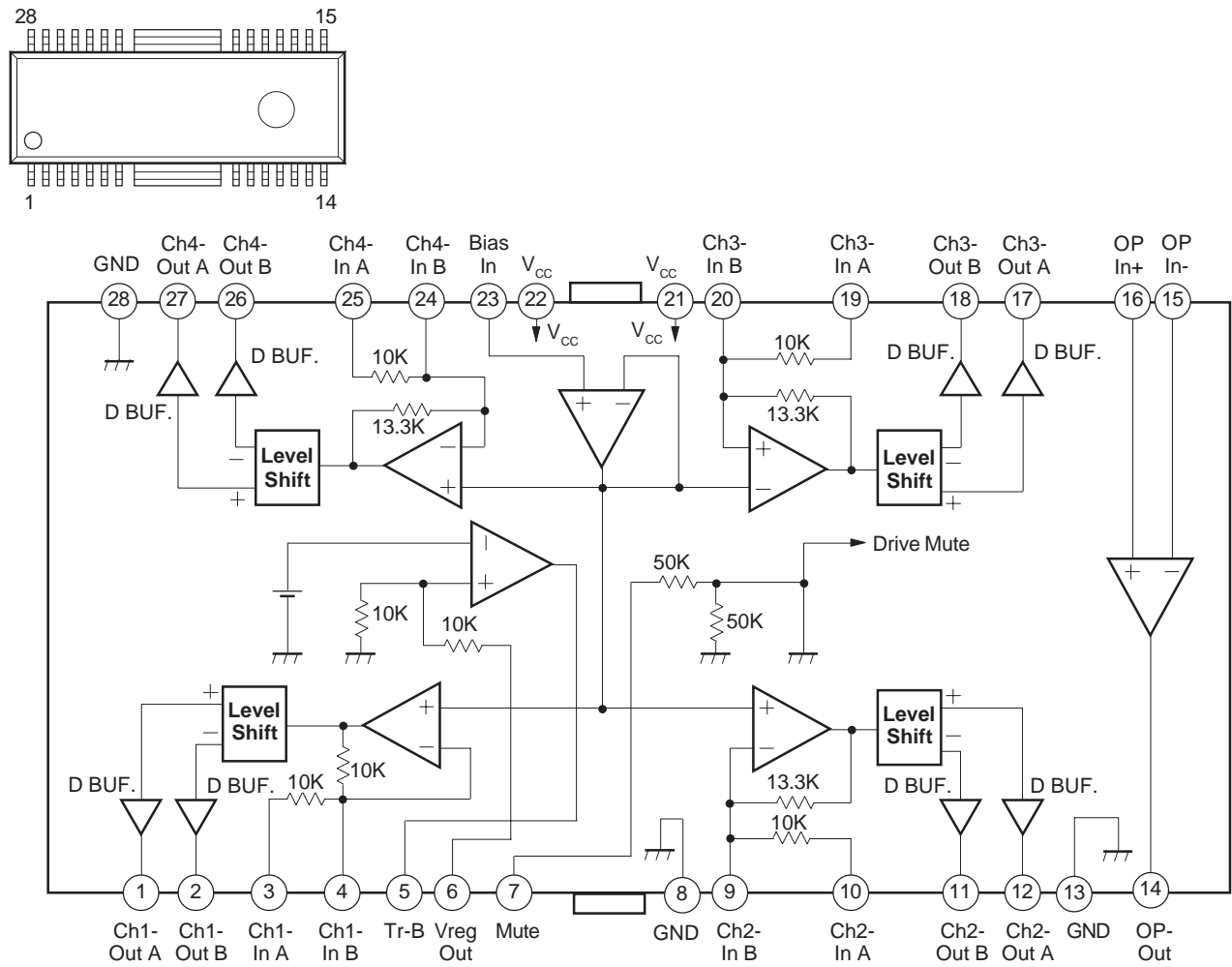




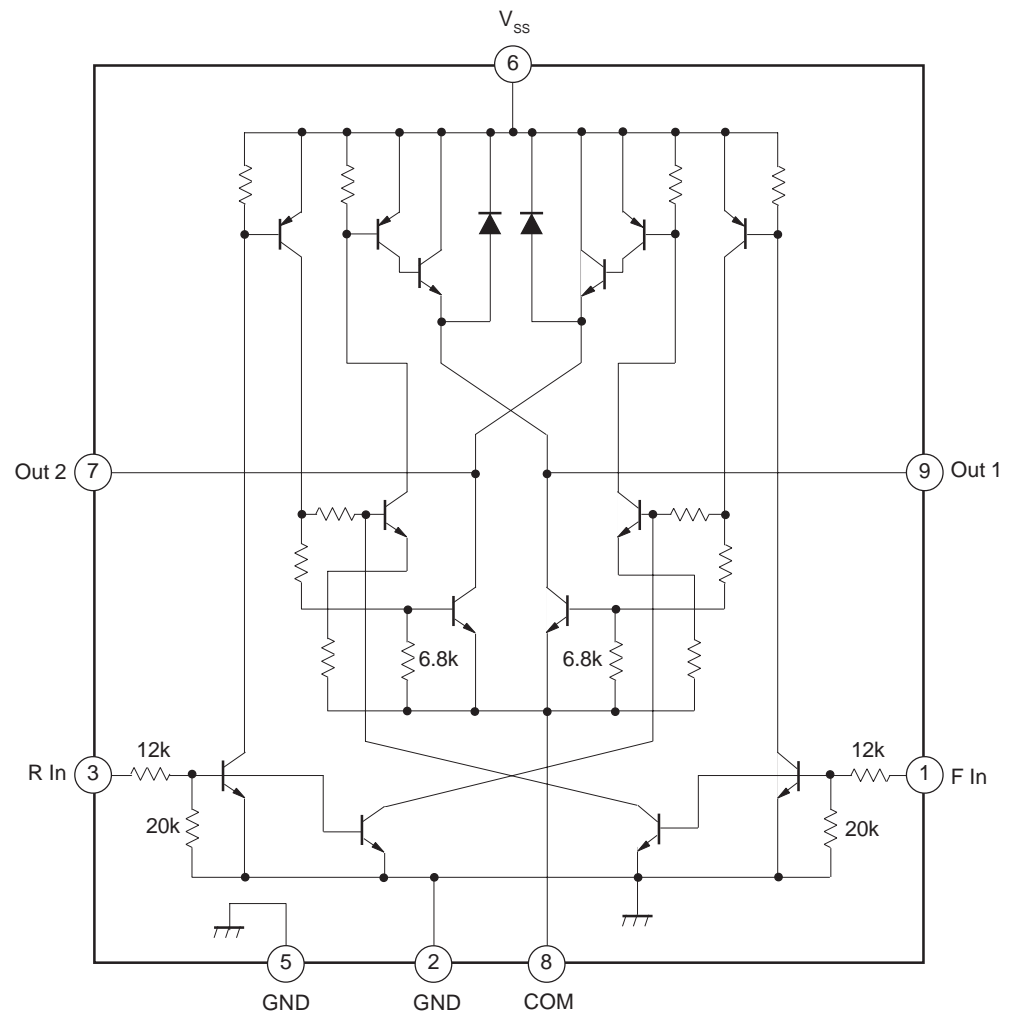
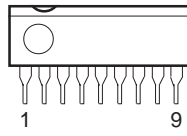
IC502: TC9263AF



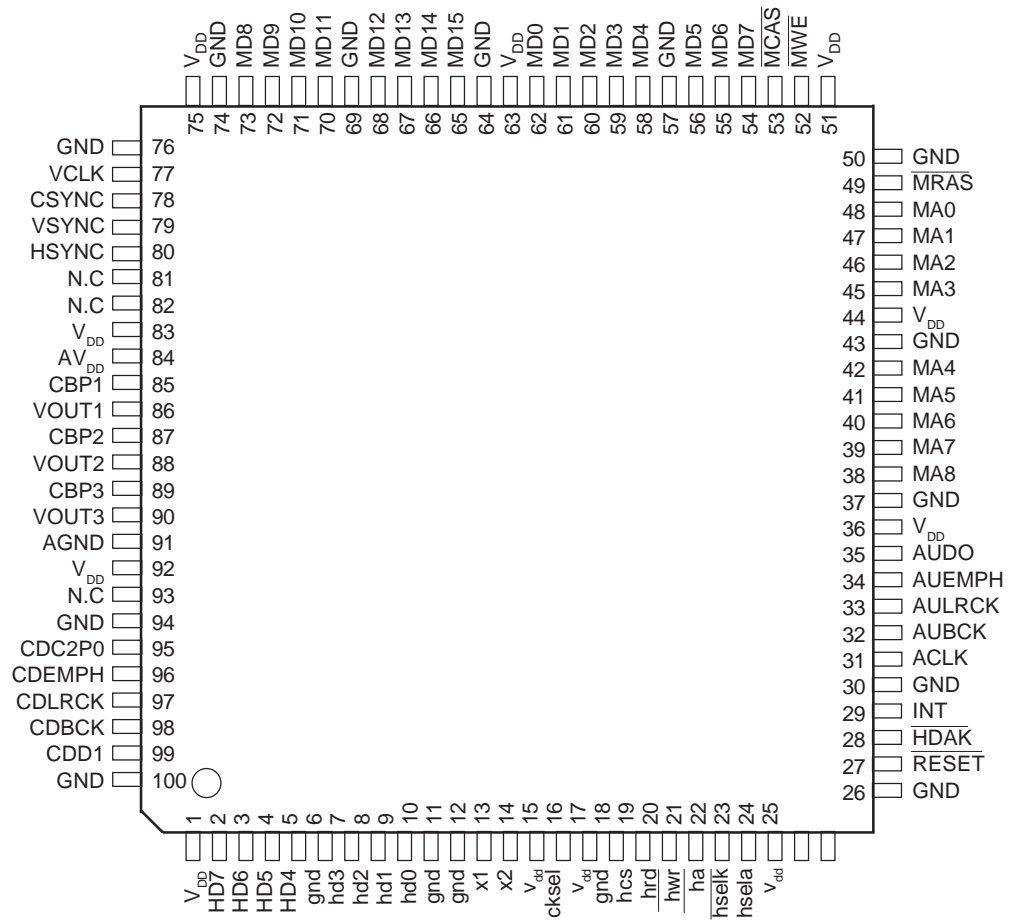
IC503: BA6398FP



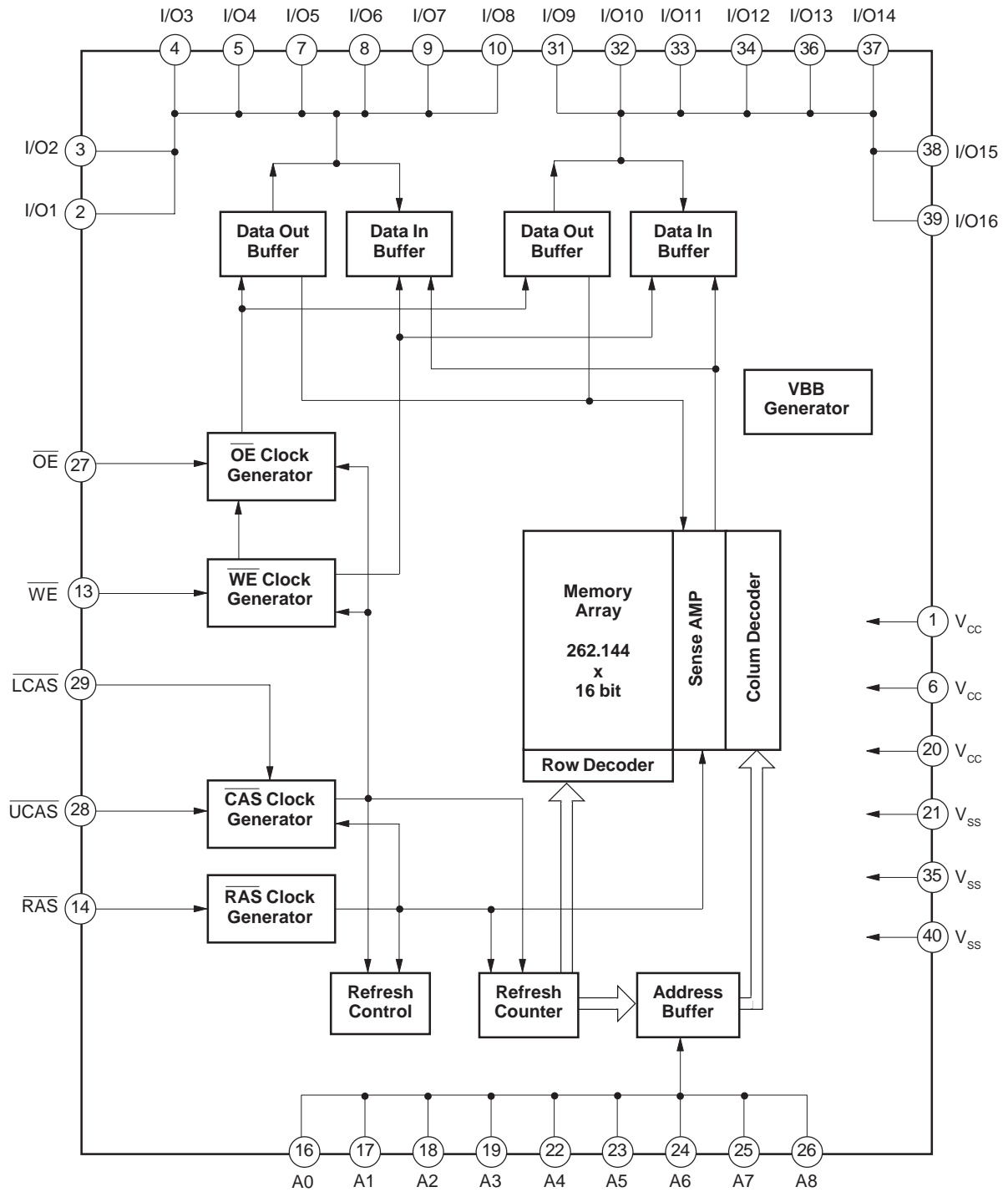
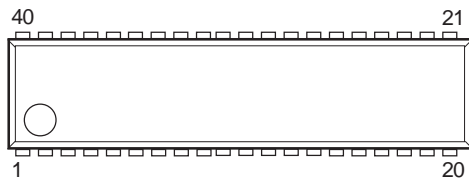
IC504: BA6218



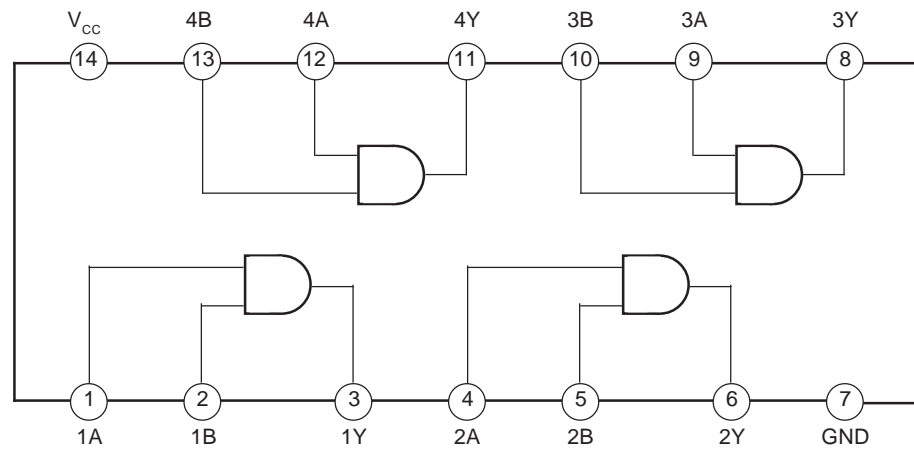
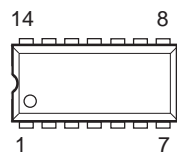
IC601: UPD61012GC-8EU



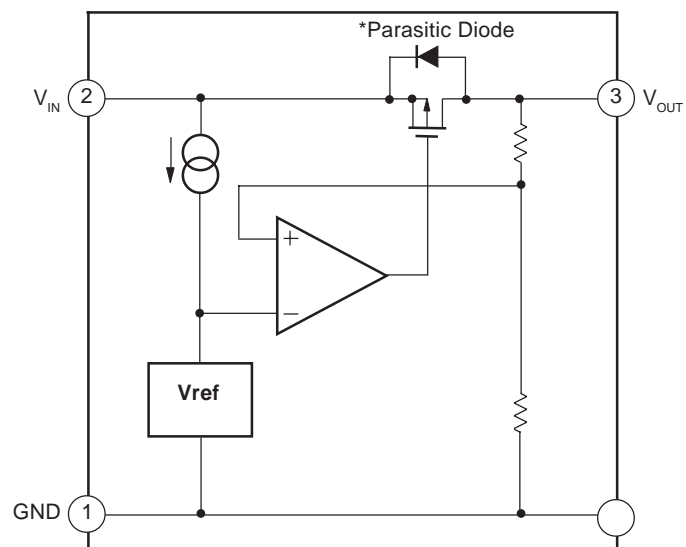
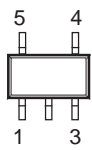
IC602: LH6C4256AK-40



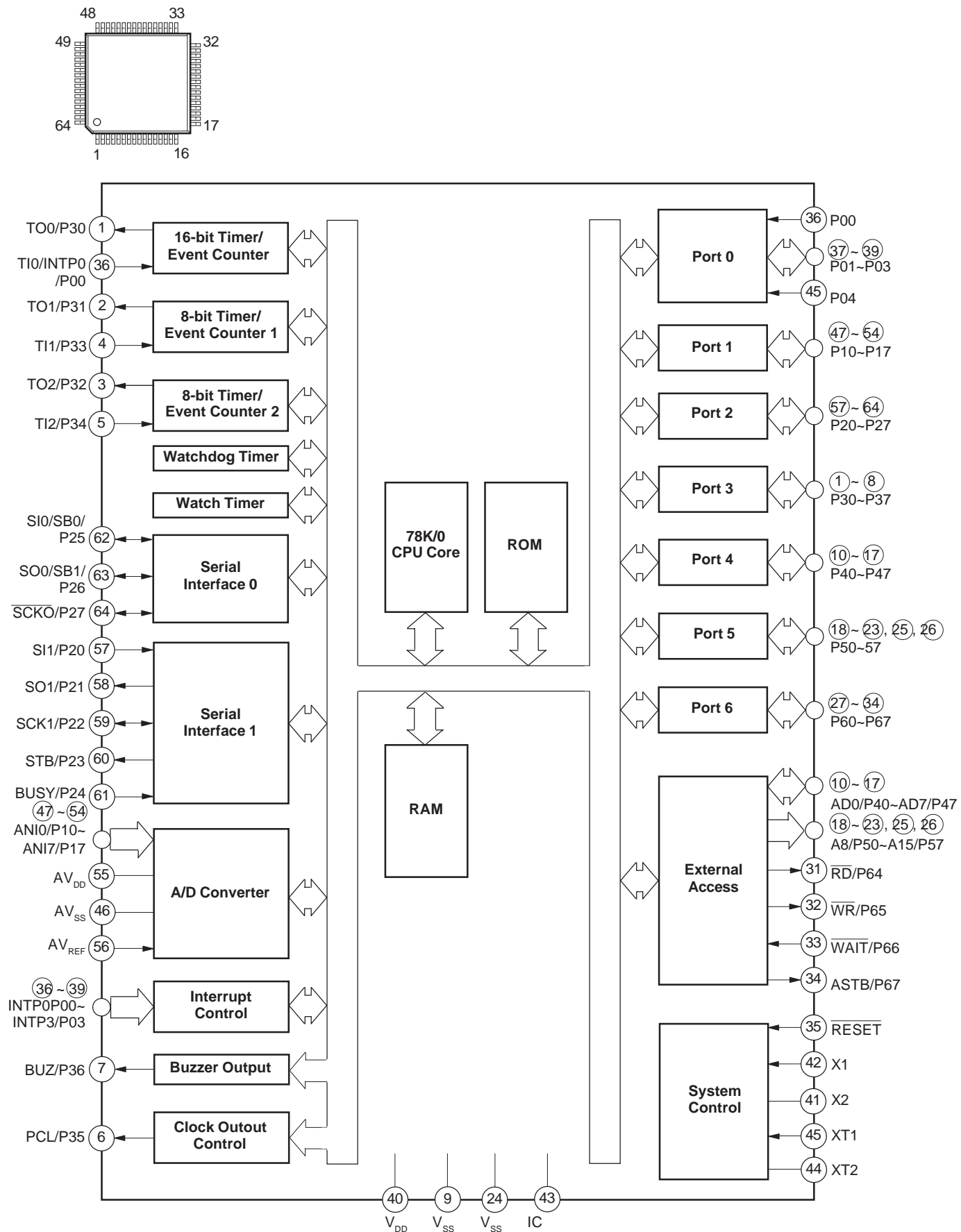
IC603: TC74HC08AF



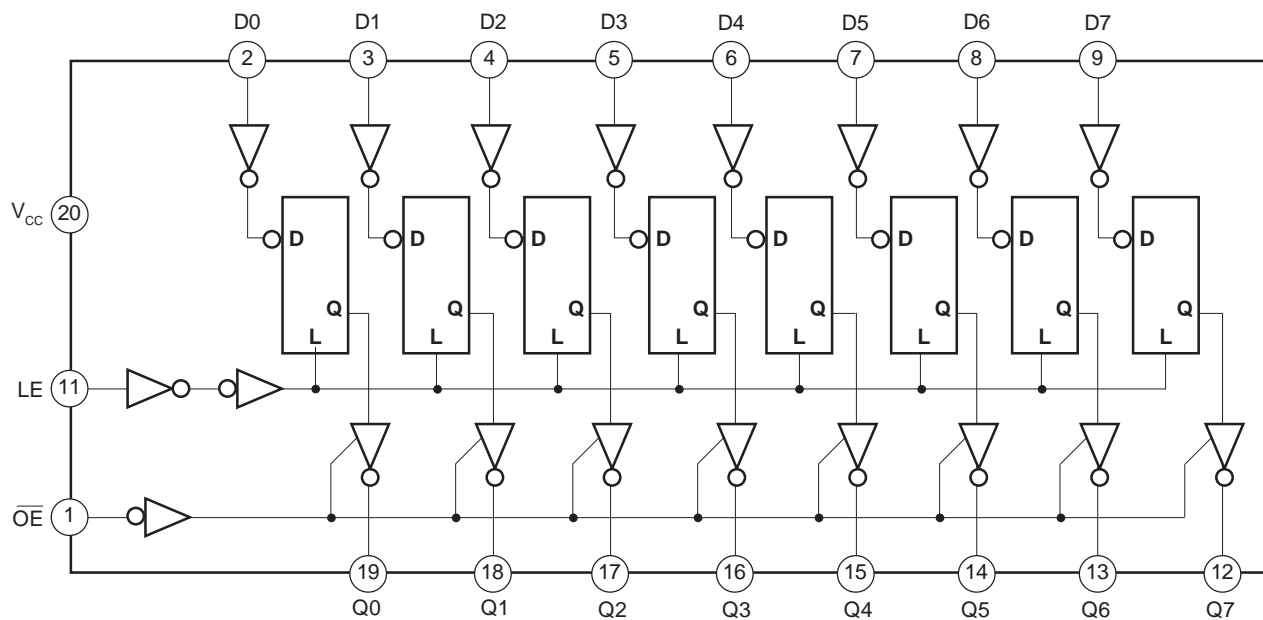
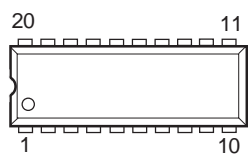
IC604: S-81233SG-QF-T1



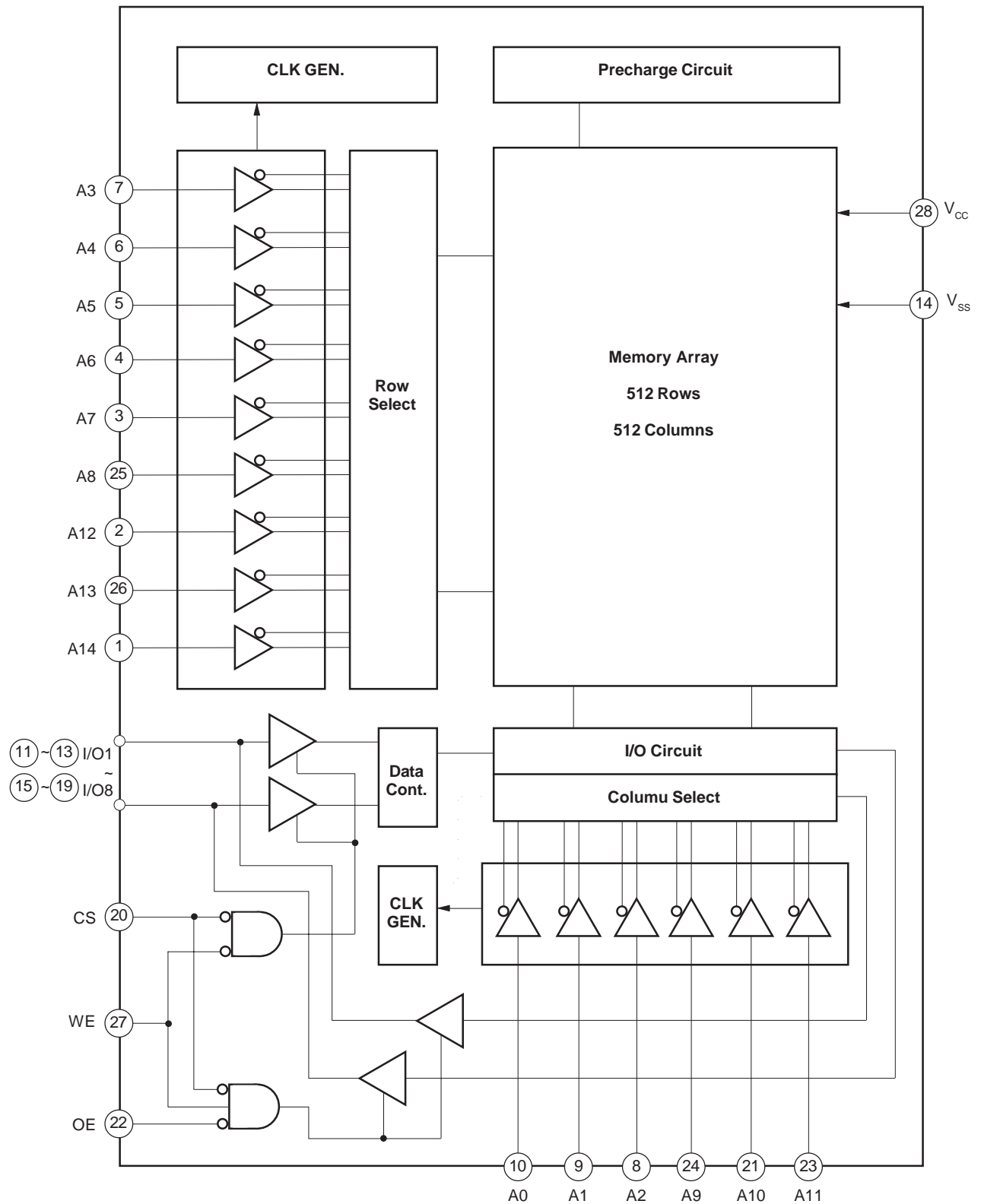
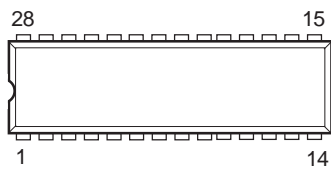
IC605: UPD78P018FGC-AB8-OPT1



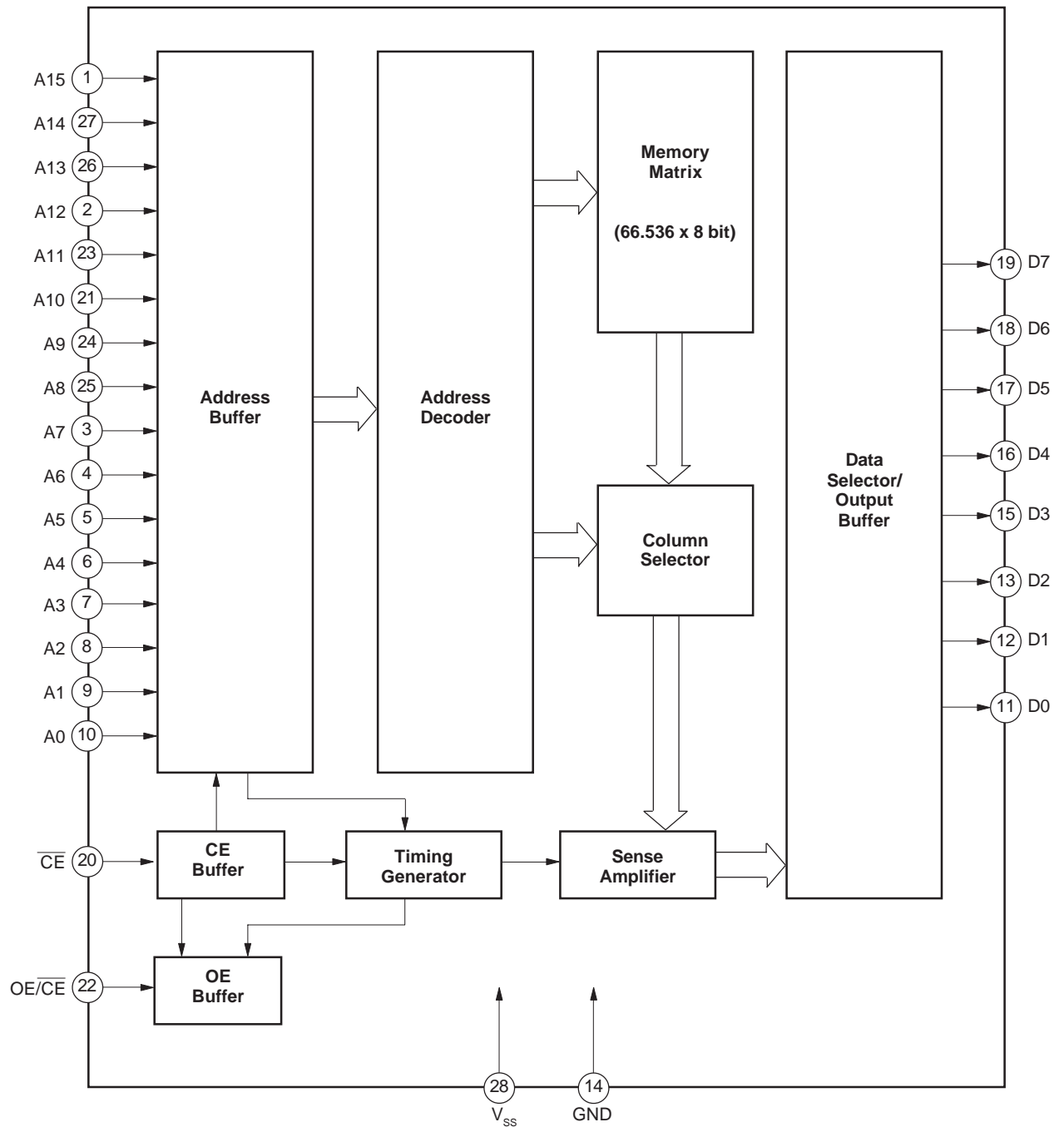
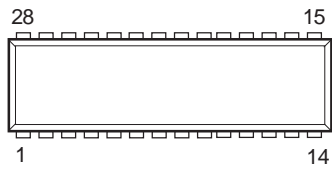
IC606: TC74HC573AF-T



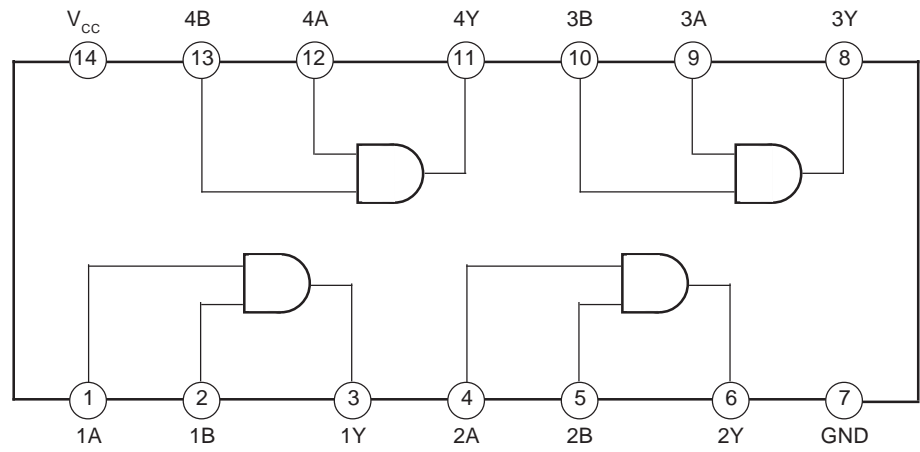
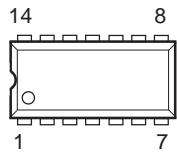
IC607: KM62256CLG-7-T



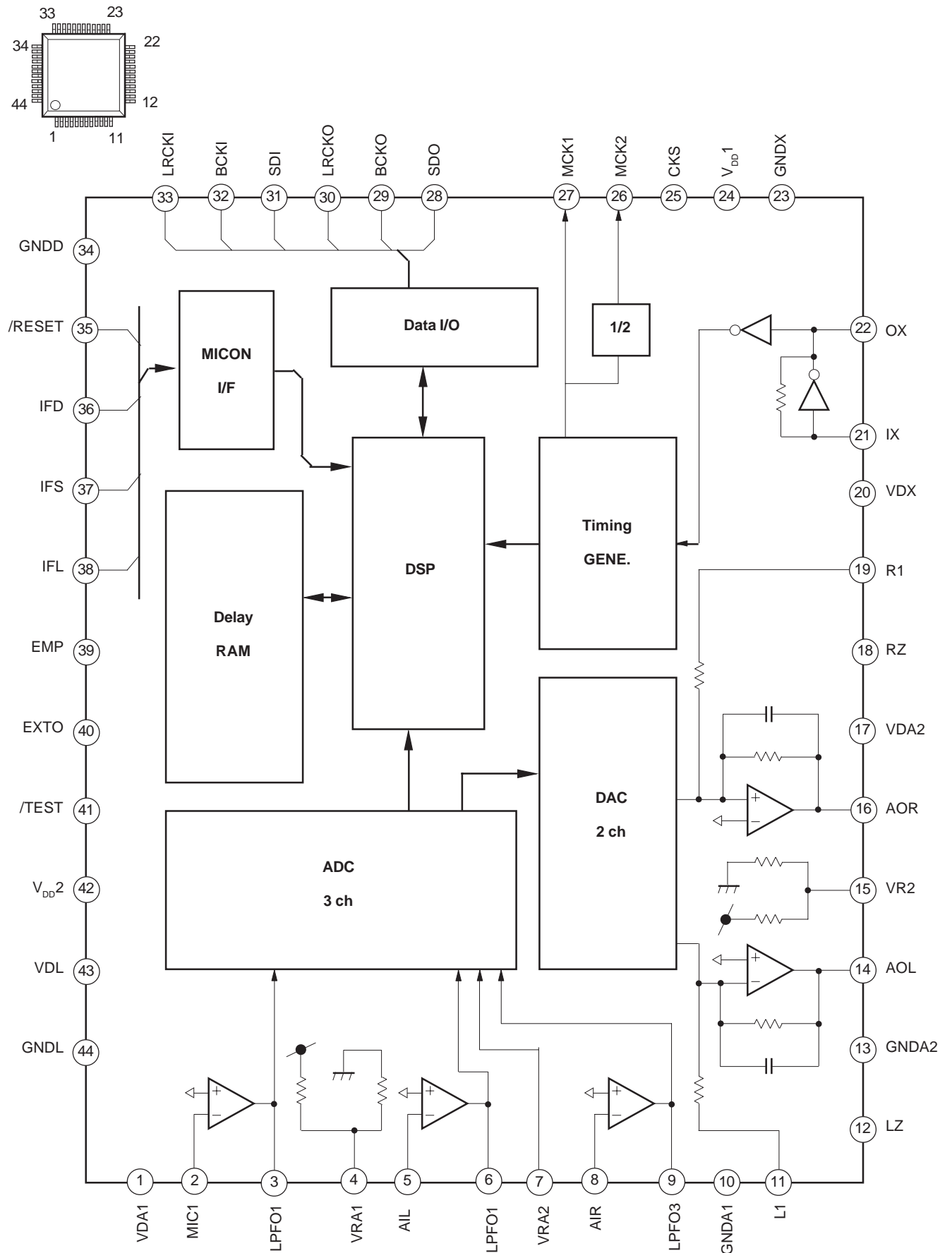
IC608: LH5317WV



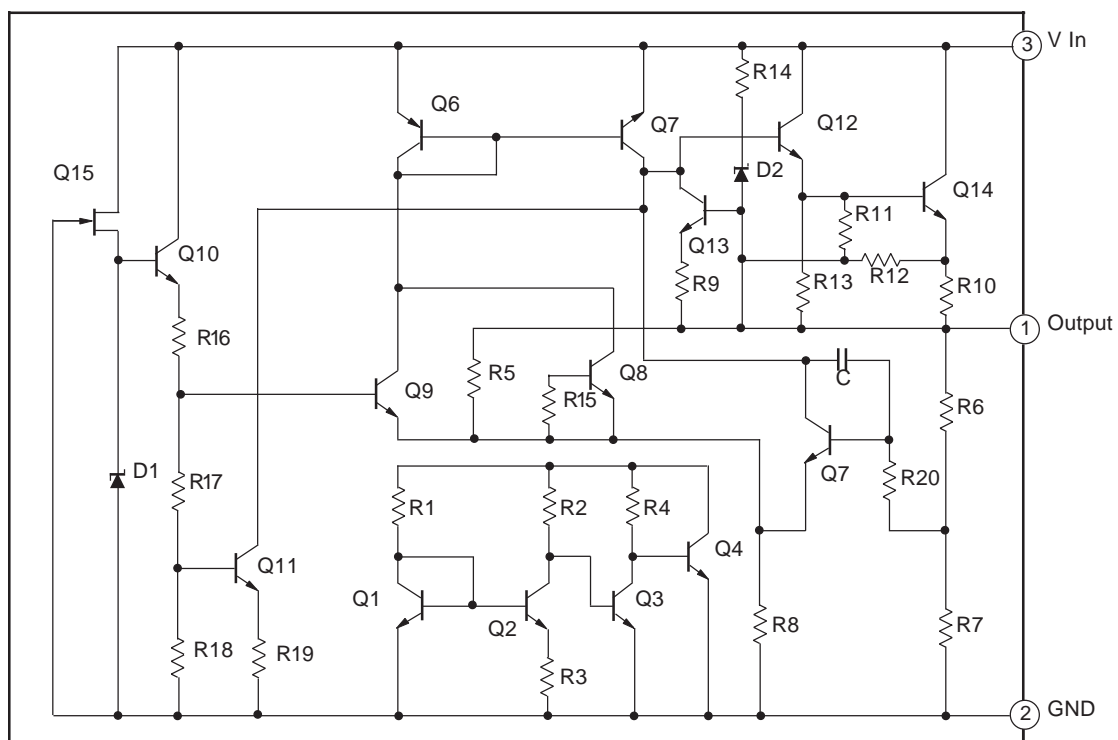
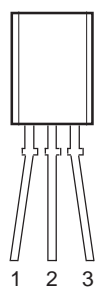
IC609, IC610: TC74HC00AF



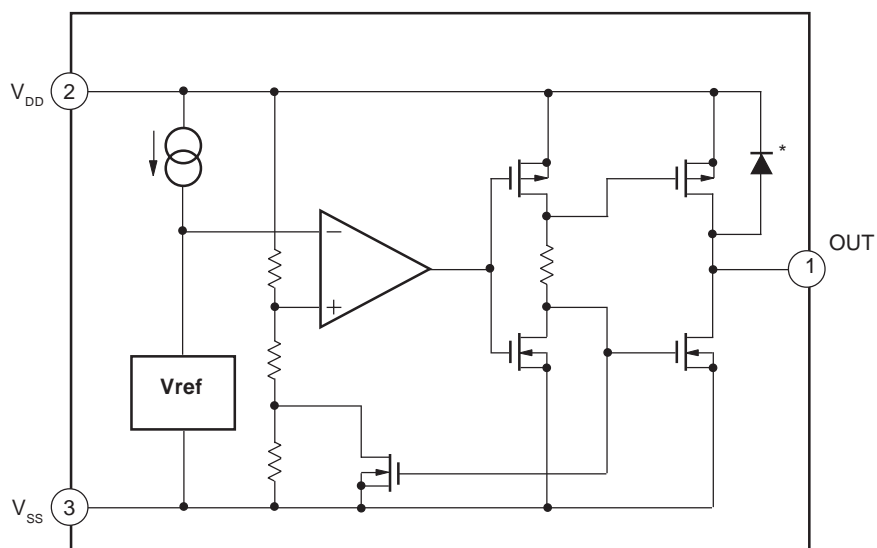
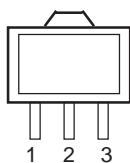
IC701: TC9409BF-001



IC901: NJM78L05A

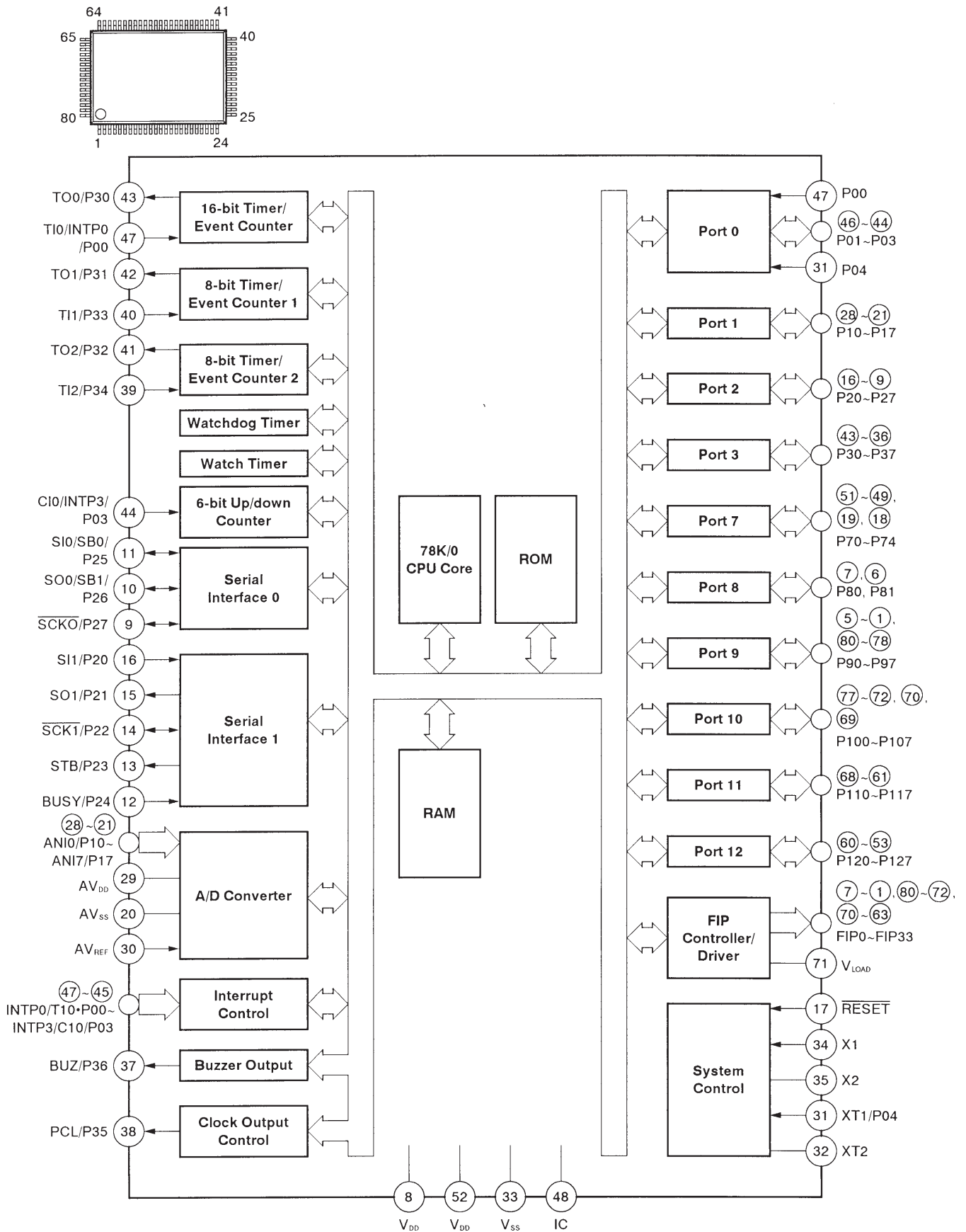


IC902: S-8072AL

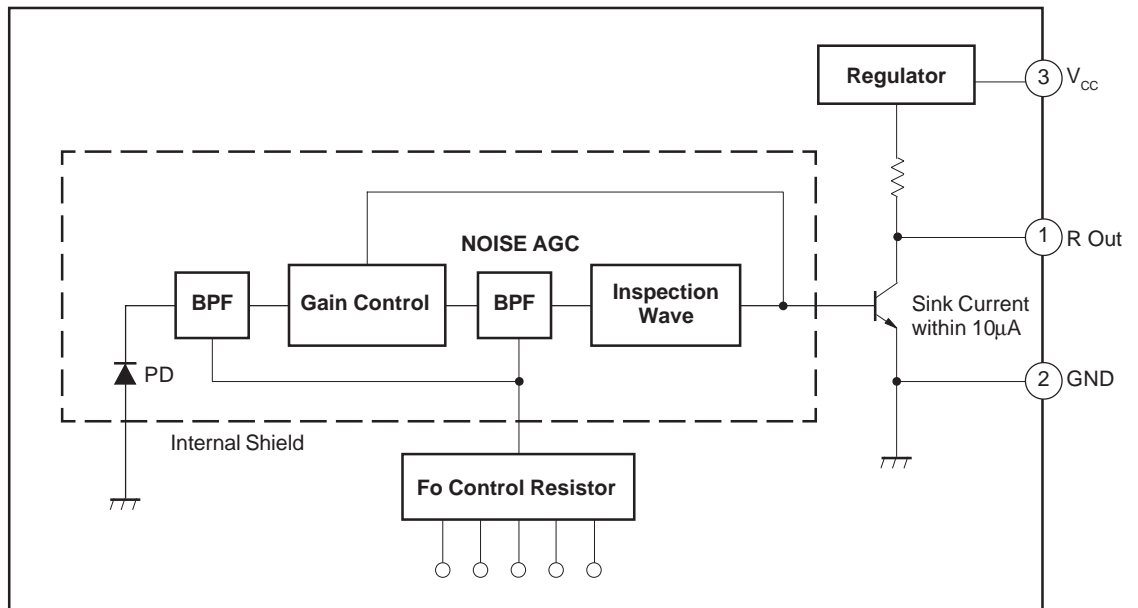
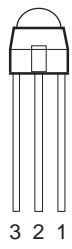


*Parasitic Diode

IC903: UPD78044FGF-074-3B9

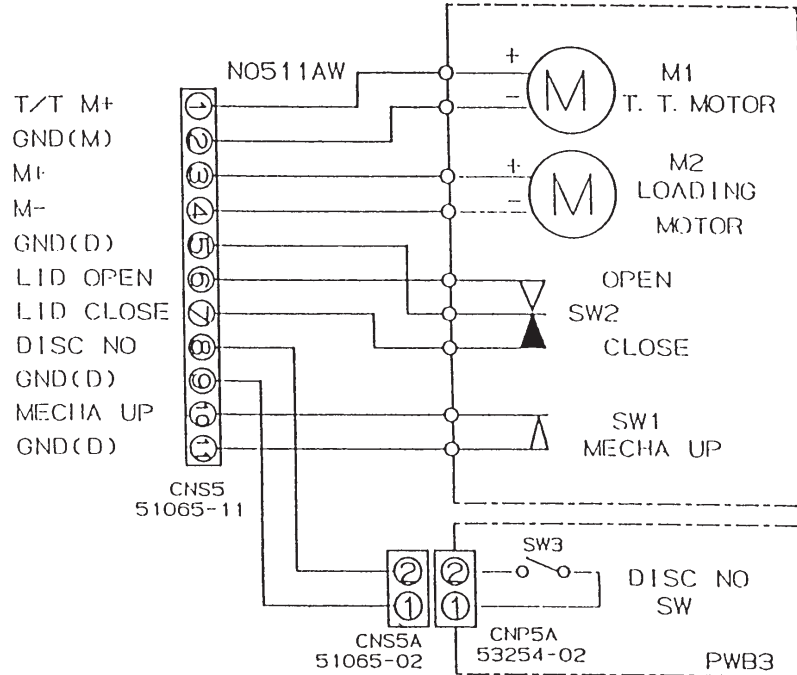


IC904: RPM-676CBR-L

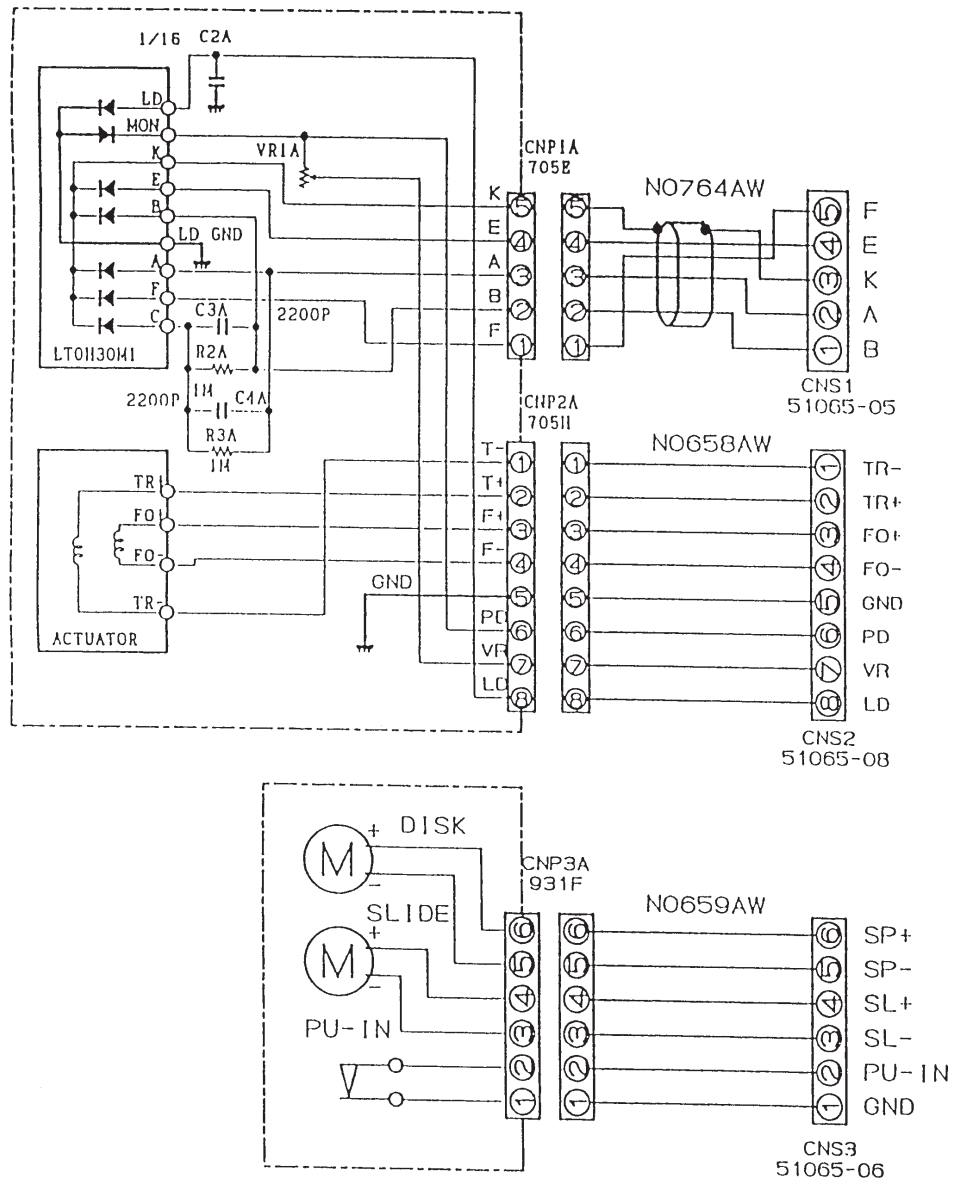


SCHEMATIC DIAGRAMS

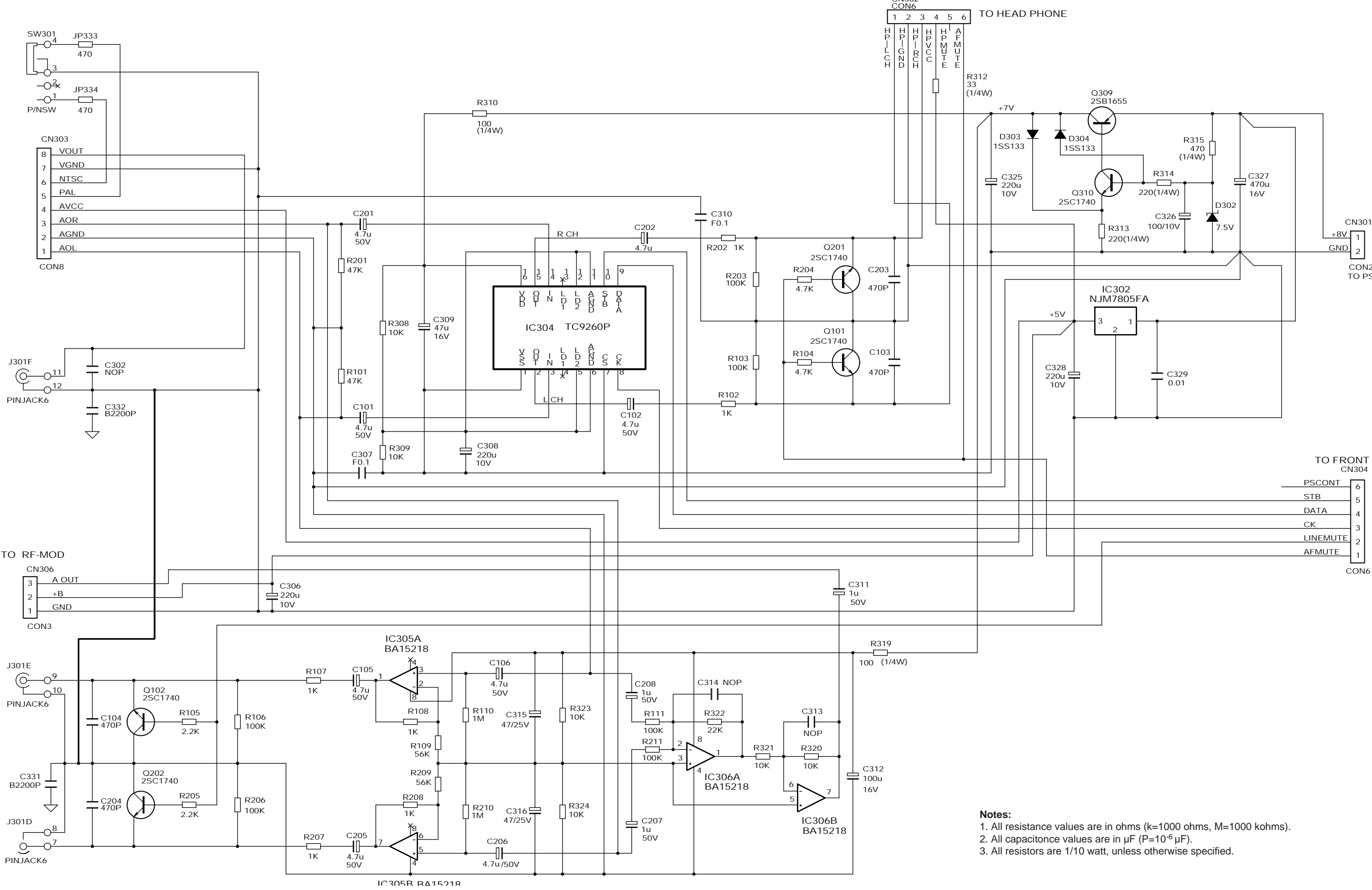
CD changer



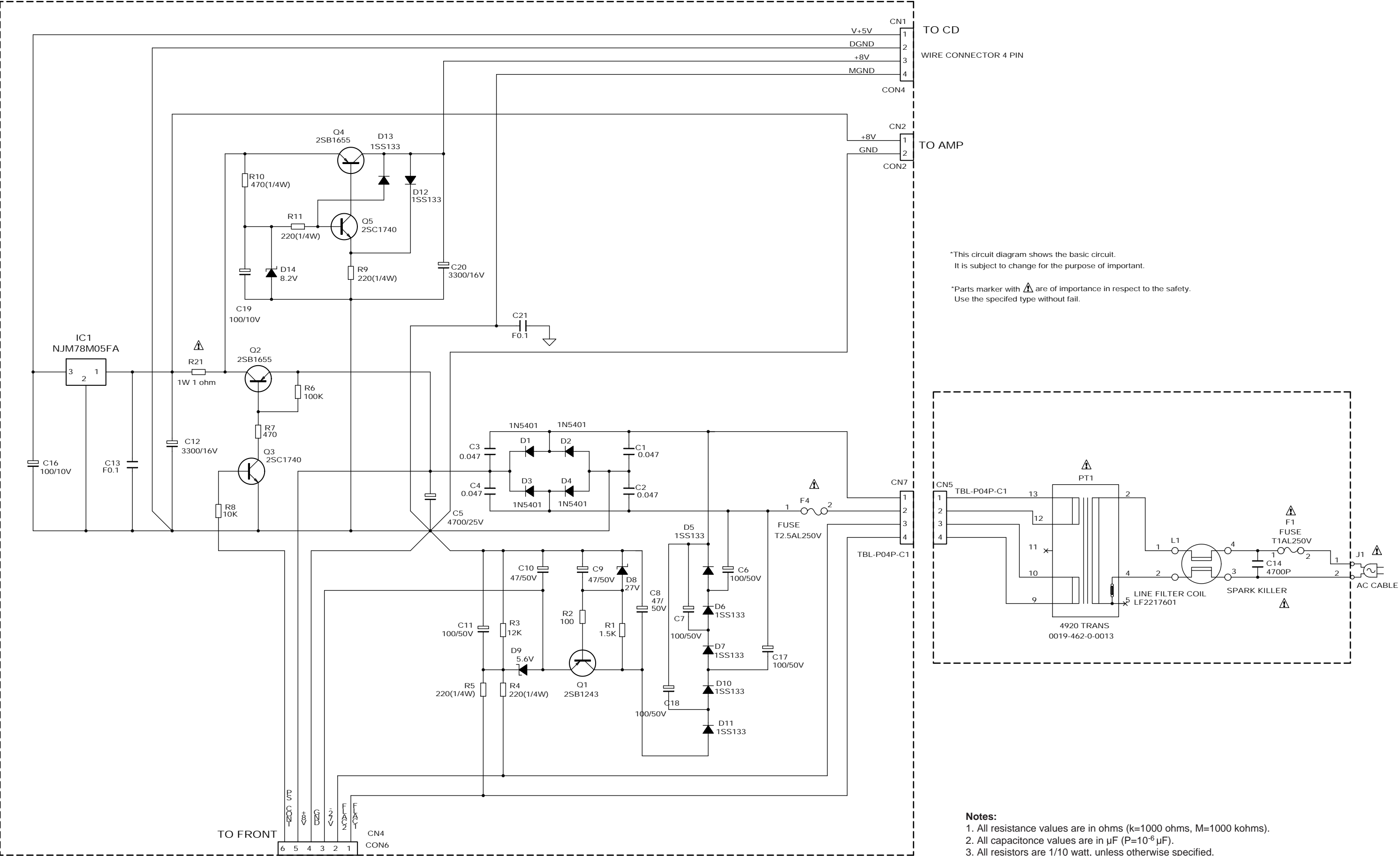
CD Pickup/Mecha

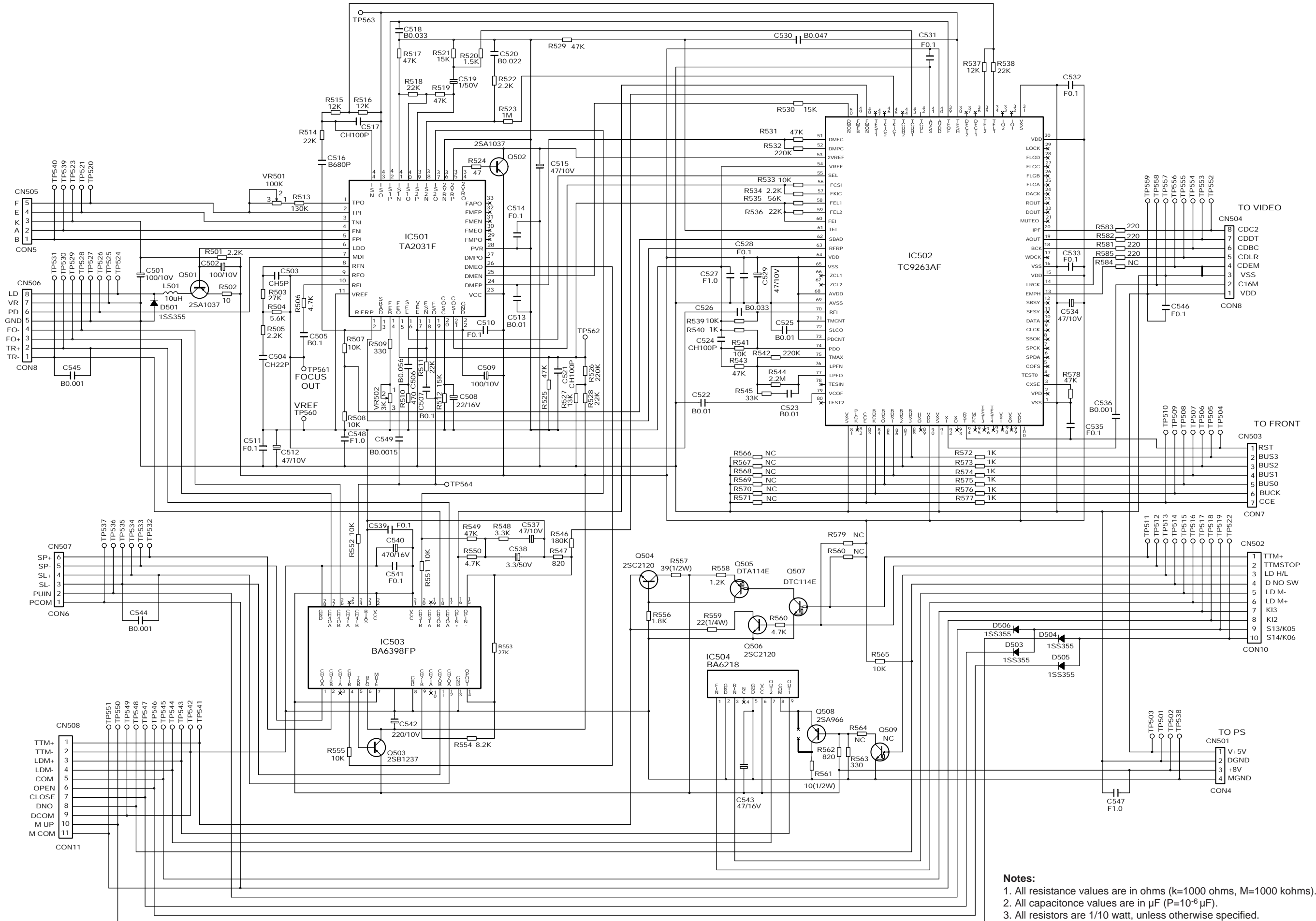


AMP

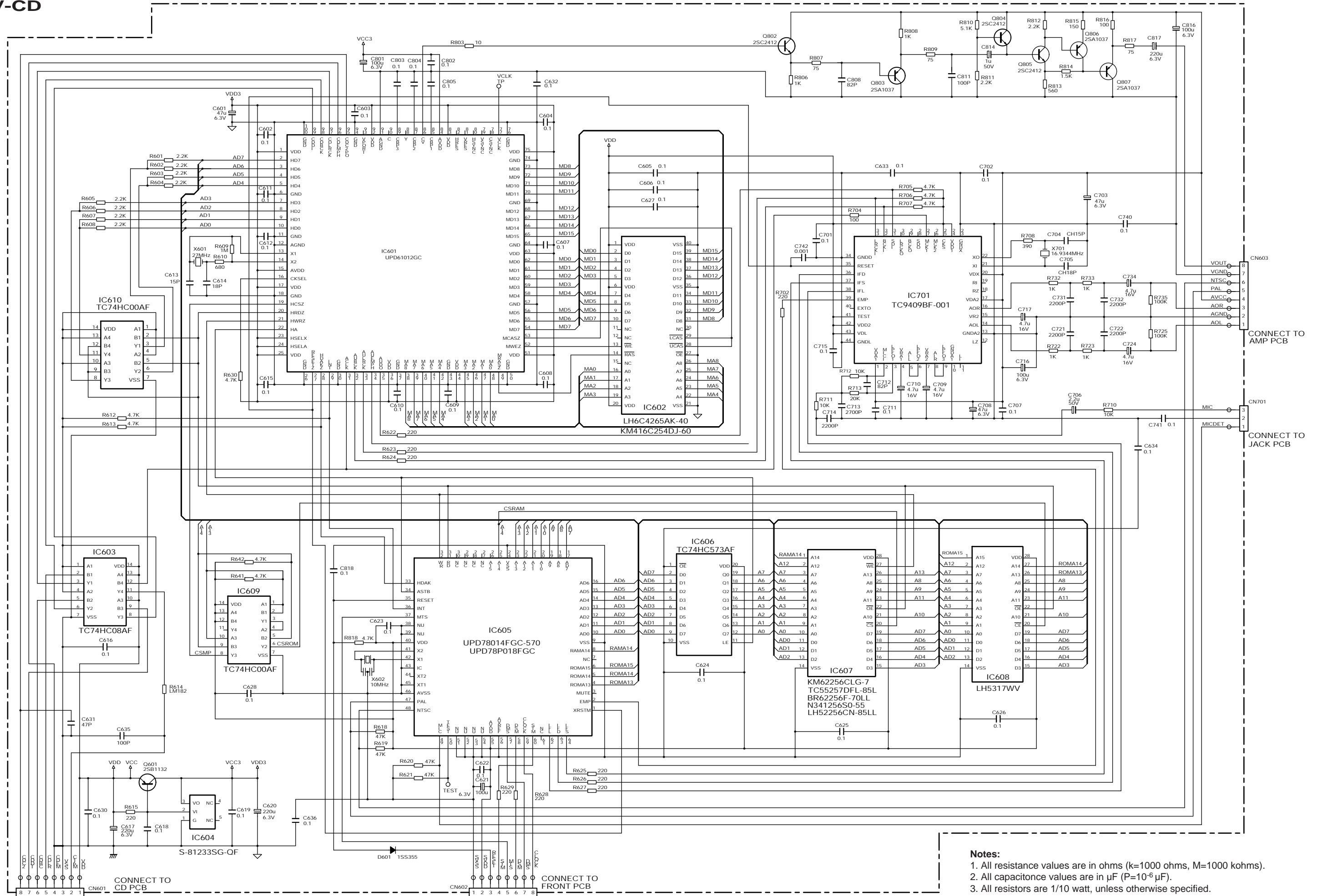


- Notes:**
1. All resistance values are in ohms (k=1000 ohms, M=1000 kohms).
 2. All capacitance values are in μF ($P=10^{-6} \mu\text{F}$).
 3. All resistors are 1/10 watt, unless otherwise specified.

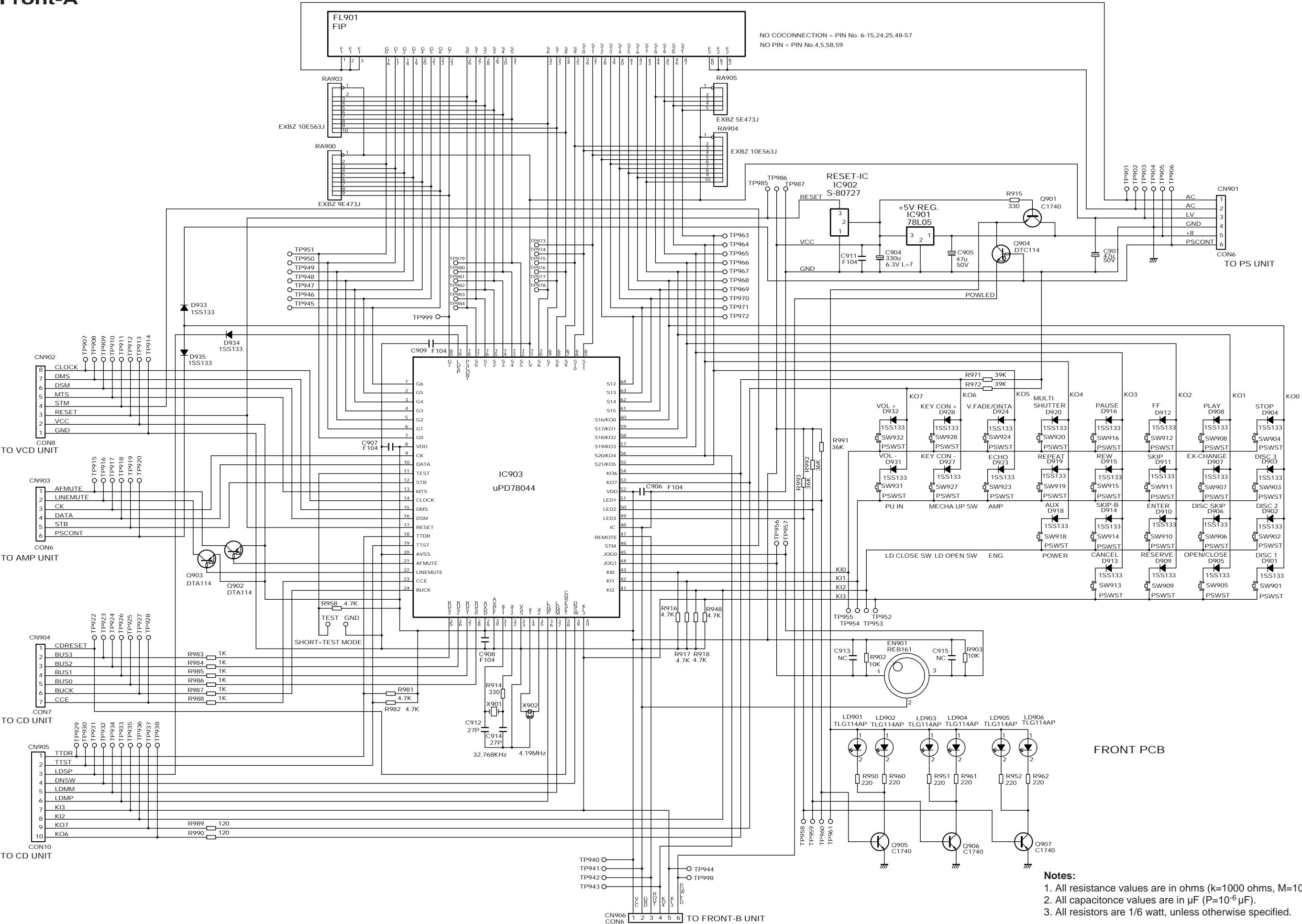




V-CD



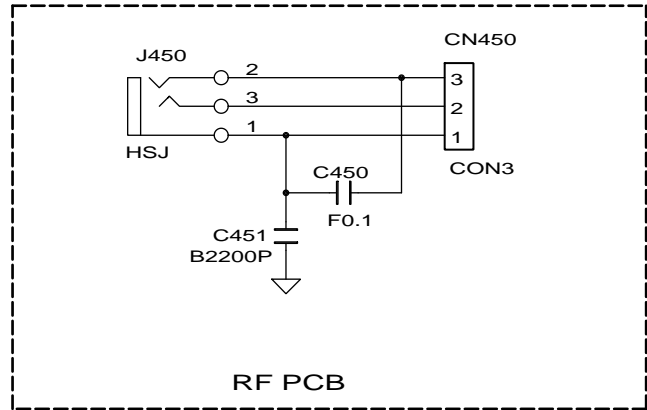
Front-A



The schematic diagram illustrates the internal circuitry of the JACK PCB, which interfaces with three other PCBs: VR, V-CD, and AMP.

- Inputs:** Two microphone inputs (MIC IN 1 and MIC IN 2) are connected via P.JACKSW connectors. Two stereo inputs (L and R) are connected via P.JACKSW connectors.
- Processing:** The signals are processed by two channels of operational amplifiers (IC351A, IC351B, IC352A, IC352B, IC353A, IC353B) and transistors (Q402, Q403). The circuit includes various passive components like resistors (R401-R433) and capacitors (C401-C455) for signal conditioning and filtering.
- Outputs:** The processed signals are sent to the P.JACKSW HEAD PHONE OUT connector.
- Connections:** The PCB is connected to the VR PCB (CN908), V-CD PCB (CN402), and AMP PCB (CN403) via specific connectors (CN401, CN402, CN403).

The diagram is labeled "JACK PCB" at the bottom.



1. All resistance values are in ohms (k=1000 ohms, M=1000 kohms).
2. All capacitance values are in μF ($\text{P}=10^{-6} \mu\text{F}$).
3. All resistors are 1/10 watt, unless otherwise specified.

PARTS LIST

VZ-2000

- Notes:
1. Prices and specifications are subject to change without pointer notice.
 2. As for spare parts order and supply, refer to the “GUIDEBOOK for Spare parts Supply”, published separately.
 3. The numbers in item column correspond to the same numbers in drawing.

N	Item	Code No.	Parts Name	Specification	Q'ty	Rank
CD UNIT						
VOLUMES						
N	VR501	1915 7093	SF VOLUMECONTROL,100K	0031-865-1-04	1	C
N	VR502	1915 7094	SF VOLUMECONTROL,3K	0031-865-3-02	1	C
AMP UNIT						
JACKS						
N	J301	1915 7098	PIN JACK	0034-022-0-0021	1	B
SWITCH						
N	SW301	1915 7090	SWITCH	0028-445-0-0011	1	C
PS UNIT						
TRANSFORMER						
N	T001	1915 7089	POWER TRANS 220V/8V	0019-462-0-0013	1	C
FRONT-A UNIT						
ENCORDER						
N	EN901	1915 7112	ROTARY ENCORDER,REB161(9X5)	0031-935-0-00	1	C
SWITCHES						
N	SW901~916 SW918~920 SW923~924 SW927~928 SW931~932	1915 7091	TACT SWITCH	0028-650-1-1301	25	C
FRONT-B UNIT						
JACKS						
N	J401, J402	1915 7096	JACK,6.3 YKB21-5139	0033-875-0-0021	2	B
N	J403	1915 7097	JACK,6.3 YKB21-5153	0033-876-0-0021	1	B
N	J450	1915 7095	MINI JACK, HJSJ146201010	0033-320-0-001	1	B
SWITCH						
N	SW933	1915 7091	TACT SWWITCH	0028-650-1-1301	1	C
VOLUMES						
N	VR901, VR902	1915 7092	POTENTIOMETER,ROTARY 10K-A	0031-669-1-03	2	C
MECHANICAL PARTS						
N	1	1915 7079	UNIT / V-CD	4920-026-0-00	1	A
N	2	1915 7077	UNIT / CD	4920-021-0-00	1	A
N	3	1915 7075	UNIT / AMP	4920-002-0-00	1	A
N	4	1915 7076	UNIT / PS	4920-011-0-00	1	B
N	5	1915 7080	UNIT / FRONT A	4920-041-0-00	1	B
N	6	1915 7081	UNIT / FRONT B	4920-046-0-00	1	B
N	7	1915 7082	UNIT / CD MECHA,CD265MDW	4920-150-0-00	1	A
N	8	1915 7151	FRONT CASE	C4920-801-0-01	1	X
N	9	1915 7153	TRAY PANEL	C4920-804-0-01	1	X
N	12	1915 7160	KNOB / POWER	C4920-860-0-01	1	X
N	13	1915 7161	BUTTON / VOL FUN	C4920-861-0-01	1	X
N	14	1915 7162	BUTTON / CD FUN	C4920-862-0-01	1	X
N	15	1915 7163	BUTTON / OPEN/CLOSE	C4920-863-0-01	1	X
N	16	1915 7164	BUTTON / DISC FUN	C4920-864-0-01	1	X
N	17	1915 7165	KNOB / MIC	C4920-865-0-01	1	X
N	18	1915 7166	KNOB / JOG	C4920-866-0-01	1	X
N	19	1915 7167	POWER LENS	C4920-871-0-01	1	X
ACCESSARY						
N		3613 1477	PLUG / CONVERSION	0032-010-0-00	1	C
N		1915 7109	PIN CORD,R-C366V-12	0047-324-0-0113	1	X
N		1915 7110	REMOTE CONTROLLER	0088-034-0-01	1	X

Note : N - New parts

M - Minimum order/supply quantity

R - Rank

Capacitors and resistors can not be supplied, because they will be available in your country.

CAPACITOR

Item	Specification				Q'ty
	C: Chip type				
C1	Ceramic	50V	0.047 μ F	$\pm 10\%$	1
C2	Ceramic	50V	0.047 μ F	$\pm 10\%$	1
C3	Ceramic	50V	0.047 μ F	$\pm 10\%$	1
C4	Ceramic	50V	0.047 μ F	$\pm 10\%$	1
C5	Electrolytic	25V	4700 μ F	$\pm 20\%$	1
C6	Electrolytic	50V	100 μ F	$\pm 20\%$	1
C7	Electrolytic	50V	100 μ F	$\pm 20\%$	1
C8	Electrolytic	50V	47 μ F	$\pm 20\%$	1
C9	Electrolytic	50V	47 μ F	$\pm 20\%$	1
C10	Electrolytic	50V	47 μ F	$\pm 20\%$	1
C11	Electrolytic	50V	100 μ F	$\pm 20\%$	1
C12	Electrolytic	16V	3300 μ F	$\pm 20\%$	1
C13	Ceramic, C	50V	0.1 μ F	+80/-20%	1
C14	Spark killer CS15-E2G				
C16	Electrolytic	10V	100 μ F	$\pm 20\%$	1
C17	Electrolytic	50V	100 μ F	$\pm 20\%$	1
C18	Electrolytic	50V	100 μ F	$\pm 20\%$	1
C19	Electrolytic	10V	100 μ F	$\pm 20\%$	1
C20	Electrolytic	16V	3300 μ F	$\pm 20\%$	1
C101	Electrolytic	50V	4.7 μ F	$\pm 20\%$	1
C102	Electrolytic	50V	4.7 μ F	$\pm 20\%$	1
C103	Ceramic	50V	470 PF	$\pm 10\%$	1
C104	Ceramic	50V	470 PF	$\pm 10\%$	1
C105	Electrolytic	50V	4.7 μ F	$\pm 20\%$	1
C106	Electrolytic	50V	4.7 μ F	$\pm 20\%$	1
C201	Electrolytic	50V	4.7 μ F	$\pm 20\%$	1
C202	Electrolytic	50V	4.7 μ F	$\pm 20\%$	1
C203	Ceramic	50V	470 PF	$\pm 10\%$	1
C204	Ceramic	50V	470 PF	$\pm 10\%$	1
C205	Electrolytic	50V	4.7 μ F	$\pm 20\%$	1
C206	Electrolytic	50V	4.7 μ F	$\pm 20\%$	1
C207	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C208	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C306	Electrolytic	10V	220 μ F	$\pm 20\%$	1
C307	Ceramic	50V	0.1 μ F	+80/-20%	1
C308	Electrolytic	10V	220 μ F	$\pm 20\%$	1
C309	Electrolytic	16V	47 μ F	$\pm 20\%$	1
C310	Ceramic	50V	0.1 μ F	+80/-20%	1
C311	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C312	Electrolytic	16V	100 μ F	$\pm 20\%$	1
C315	Electrolytic	25V	47 μ F	$\pm 20\%$	1
C316	Electrolytic	25V	47 μ F	$\pm 20\%$	1
C325	Electrolytic	10V	220 μ F	$\pm 20\%$	1
C326	Electrolytic	10V	100 μ F	$\pm 20\%$	1
C327	Electrolytic	16V	470 μ F	$\pm 20\%$	1
C328	Electrolytic	10V	220 μ F	$\pm 20\%$	1
C329	Ceramic	50V	0.01 μ F	$\pm 10\%$	1
C331	Ceramic	50V	2200 PF	$\pm 10\%$	1
C332	Ceramic	50V	2200 PF	$\pm 10\%$	1
C401	Electrolytic	6.3V	220 μ F	$\pm 20\%$	1
C402	Ceramic, C	50V	1000 PF	$\pm 10\%$	1
C403	Ceramic, C	50V	1000 PF	$\pm 10\%$	1
C404	Ceramic, C	25V	1 μ F	+80/-20%	1
C405	Ceramic, C	50V	47 PF	$\pm 5\%$	1
C407	Ceramic, C	25V	0.1 μ F	+80/-20%	1

Item	Specification				Q'ty
C408	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C409	Ceramic, C	50V	1000 PF	$\pm 10\%$	1
C410	Ceramic, C	50V	1000 PF	$\pm 10\%$	1
C411	Electrolytic	50V	0.1 μ F	$\pm 20\%$	1
C412	Ceramic, C	50V	47 PF	$\pm 5\%$	1
C414	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C415	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C417	Ceramic, C	50V	100 PF	$\pm 5\%$	1
C419	Ceramic, C	50V	5600 PF	$\pm 10\%$	1
C420	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C421	Ceramic, C	50V	100 PF	$\pm 5\%$	1
C423	Ceramic, C	50V	5600 PF	$\pm 10\%$	1
C424	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C425	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C426	Ceramic, C	50V	1000 PF	$\pm 10\%$	1
C427	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C428	Electrolytic	50V	0.1 μ F	$\pm 20\%$	1
C429	Electrolytic	6.3V	220 μ F	$\pm 20\%$	1
C430	Ceramic, C	25V	0.1 μ F	+80/-20%	1
C433	Electrolytic	6.3V	220 μ F	$\pm 20\%$	1
C434	Electrolytic	6.3V	220 μ F	$\pm 20\%$	1
C450	Ceramic	50V	0.1 μ F	+80/-20%	1
C453	Ceramic	50V	0.1 μ F	+80/-20%	1
C501	Electrolytic	10V	100 μ F	$\pm 20\%$	1
C502	Electrolytic	10V	100 μ F	$\pm 20\%$	1
C503	Ceramic, C	50V	5 PF	± 0.25 PF	1
C504	Ceramic, C	50V	22 PF	$\pm 5\%$	1
C505	Ceramic, C	25V	0.1 μ F	$\pm 10\%$	1
C506	Ceramic, C	50V	0.056 μ F	$\pm 10\%$	1
C507	Ceramic, C	25V	0.1 μ F	$\pm 10\%$	1
C508	Electrolytic	16V	22 μ F	$\pm 20\%$	1
C509	Electrolytic	10V	100 μ F	$\pm 20\%$	1
C510	Ceramic, C	25V	0.1 μ F	+80/-20%	1
C511	Ceramic, C	25V	0.1 μ F	+80/-20%	1
C512	Electrolytic	10V	47 μ F	$\pm 20\%$	1
C513	Ceramic, C	50V	0.01 μ F	$\pm 10\%$	1
C514	Ceramic, C	25V	0.1 μ F	+80/-20%	1
C515	Electrolytic	10V	47 μ F	$\pm 20\%$	1
C516	Ceramic, C	50V	680 PF	$\pm 10\%$	1
C517	Ceramic, C	50V	100 PF	$\pm 5\%$	1
C518	Ceramic, C	50V	0.033 μ F	$\pm 10\%$	1
C519	Electrolytic	50V	1 μ F	$\pm 20\%$	1
C520	Ceramic, C	50V	0.022 μ F	$\pm 10\%$	1
C521	Ceramic, C	50V	100 PF	$\pm 5\%$	1
C522	Ceramic, C	50V	0.01 μ F	$\pm 10\%$	1
C523	Ceramic, C	50V	0.01 μ F	$\pm 10\%$	1
C524	Ceramic, C	50V	100 PF	$\pm 5\%$	1
C525	Ceramic, C	50V	0.01 μ F	$\pm 10\%$	1
C526	Ceramic, C	50V	0.033 μ F	$\pm 10\%$	1
C527	Ceramic, C	25V	0.1 μ F	+80/-20%	1
C527	Ceramic, C	25V	1 μ F	+80/-20%	1
C528	Ceramic, C	25V	0.1 μ F	+80/-20%	1
C529	Electrolytic	10V	47 μ F	$\pm 20\%$	1
C530	Ceramic, C	50V	0.047 μ F	$\pm 10\%$	1
C531	Ceramic, C	25V	0.1 μ F	+80/-20%	1
C532	Ceramic, C	25V	0.1 μ F	+80/-20%	1

Item	Specification			Q'ty
C533	Ceramic, C	25V	0.1 μ F +80/-20%	1
C534	Electrolytic	10V	47 μ F \pm 20%	1
C535	Ceramic, C	25V	0.1 μ F +80/-20%	1
C536	Ceramic, C	50V	1000 PF \pm 10%	1
C537	Electrolytic	10V	47 μ F \pm 20%	1
C538	Electrolytic	50V	3.3 μ F \pm 20%	1
C539	Ceramic, C	25V	0.1 μ F +80/-20%	1
C540	Electrolytic	16V	470 μ F \pm 20%	1
C541	Ceramic, C	25V	0.1 μ F +80/-20%	1
C542	Electrolytic	10V	220 μ F \pm 20%	1
C543	Electrolytic	16V	47 μ F \pm 20%	1
C544	Ceramic, C	50V	1000 PF \pm 10%	1
C545	Ceramic, C	50V	1000 PF \pm 10%	1
C546	Ceramic, C	25V	0.1 μ F +80/-20%	1
C547	Ceramic, C	25V	1 μ F +80/-20%	1
C548	Ceramic, C	25V	1 μ F +80/-20%	1
C549	Ceramic, C	50V	1500 PF \pm 10%	1
C601	Electrolytic	6.3V	47 μ F \pm 20%	1
C602	Ceramic, C	25V	0.1 μ F +80/-20%	1
C603	Ceramic, C	25V	0.1 μ F +80/-20%	1
C604	Ceramic, C	25V	0.1 μ F +80/-20%	1
C605	Ceramic, C	25V	0.1 μ F +80/-20%	1
C606	Ceramic, C	25V	0.1 μ F +80/-20%	1
C607	Ceramic, C	25V	0.1 μ F +80/-20%	1
C608	Ceramic, C	25V	0.1 μ F +80/-20%	1
C609	Ceramic, C	25V	0.1 μ F +80/-20%	1
C610	Ceramic, C	25V	0.1 μ F +80/-20%	1
C611	Ceramic, C	25V	0.1 μ F +80/-20%	1
C612	Ceramic, C	25V	0.1 μ F +80/-20%	1
C613	Ceramic, C	50V	15 PF \pm 5%	1
C614	Ceramic, C	50V	18 PF \pm 5%	1
C615	Ceramic, C	25V	0.1 μ F +80/-20%	1
C616	Ceramic, C	25V	0.1 μ F +80/-20%	1
C617	Electrolytic	6.3V	220 μ F \pm 20%	1
C618	Ceramic, C	25V	0.1 μ F +80/-20%	1
C619	Ceramic, C	25V	0.1 μ F +80/-20%	1
C620	Electrolytic	6.3V	220 μ F \pm 20%	1
C621	Electrolytic	6.3V	100 μ F \pm 20%	1
C622	Ceramic, C	25V	0.1 μ F +80/-20%	1
C623	Ceramic, C	25V	0.1 μ F +80/-20%	1
C624	Ceramic, C	25V	0.1 μ F +80/-20%	1
C625	Ceramic, C	25V	0.1 μ F +80/-20%	1
C626	Ceramic, C	25V	0.1 μ F +80/-20%	1
C627	Ceramic, C	25V	0.1 μ F +80/-20%	1
C628	Ceramic, C	25V	0.1 μ F +80/-20%	1
C630	Ceramic, C	25V	0.1 μ F +80/-20%	1
C631	Ceramic, C	50V	47 PF \pm 5%	1
C632	Ceramic, C	25V	0.1 μ F +80/-20%	1
C633	Ceramic, C	25V	0.1 μ F +80/-20%	1
C634	Ceramic, C	25V	0.1 μ F +80/-20%	1
C635	Ceramic, C	50V	100 PF \pm 5%	1
C636	Ceramic, C	25V	0.1 μ F +80/-20%	1
C701	Ceramic, C	25V	0.1 μ F +80/-20%	1
C702	Ceramic, C	25V	0.1 μ F +80/-20%	1
C703	Electrolytic	6.3V	47 μ F \pm 20%	1
C704	Ceramic, C	50V	15 PF \pm 5%	1
C705	Ceramic, C	50V	18 PF \pm 5%	1
C706	Electrolytic	50V	2.2 μ F \pm 20%	1
C707	Ceramic, C	25V	0.1 μ F +80/-20%	1

Item	Specification			Q'ty
C708	Electrolytic	6.3V	47 μ F \pm 20%	1
C709	Electrolytic	16V	4.7 μ F \pm 20%	1
C710	Electrolytic	16V	4.7 μ F \pm 20%	1
C711	Ceramic, C	25V	0.1 μ F +80/-20%	1
C712	Ceramic, C	50V	82 PF \pm 5%	1
C713	Ceramic, C	50V	2700 PF \pm 10%	1
C714	Ceramic, C	50V	2200 PF \pm 10%	1
C715	Ceramic, C	25V	0.1 μ F +80/-20%	1
C716	Electrolytic	6.3V	100 μ F \pm 20%	1
C717	Electrolytic	16V	4.7 μ F \pm 20%	1
C721	Ceramic, C	50V	2200 PF \pm 10%	1
C722	Ceramic, C	50V	2200 PF \pm 10%	1
C724	Electrolytic	16V	4.7 μ F \pm 20%	1
C731	Ceramic, C	50V	2200 PF \pm 10%	1
C732	Ceramic, C	50V	2200 PF \pm 10%	1
C734	Electrolytic	16V	4.7 μ F \pm 20%	1
C740	Ceramic, C	25V	0.1 μ F +80/-20%	1
C741	Ceramic, C	25V	0.1 μ F +80/-20%	1
C742	Ceramic, C	50V	1000 PF \pm 10%	1
C801	Electrolytic	6.3V	100 μ F \pm 20%	1
C802	Ceramic, C	25V	0.1 μ F +80/-20%	1
C803	Ceramic, C	25V	0.1 μ F +80/-20%	1
C804	Ceramic, C	25V	0.1 μ F +80/-20%	1
C805	Ceramic, C	25V	0.1 μ F +80/-20%	1
C808	Ceramic, C	50V	82 PF \pm 5%	1
C811	Ceramic, C	50V	100 PF \pm 5%	1
C814	Electrolytic	50V	1 μ F \pm 20%	1
C816	Electrolytic	6.3V	100 μ F \pm 20%	1
C817	Electrolytic	6.3V	220 μ F \pm 20%	1
C818	Ceramic, C	25V	0.1 μ F +80/-20%	1
C901	Electrolytic	50V	47 μ F \pm 20%	1
C903	Ceramic, C	25V	0.1 μ F +80/-20%	1
C904	Electrolytic	6.3V	330 μ F \pm 20%	1
C905	Electrolytic	50V	47 μ F \pm 20%	1
C906	Ceramic	25V	0.1 μ F +80/-20%	1
C907	Ceramic	25V	0.1 μ F +80/-20%	1
C908	Ceramic	25V	0.1 μ F +80/-20%	1
C909	Ceramic	25V	0.1 μ F +80/-20%	1
C911	Ceramic	25V	0.1 μ F +80/-20%	1
C912	Ceramic	50V	27 PF \pm 5%	1
C914	Ceramic	50V	27 PF \pm 5%	1

RESISTOR

All resistors are chip type, 1/10watts, \pm 5% unless otherwise specified.

Item	Specification		Q'ty
R1	1.5K Ω	1/6W	1
R2	100 Ω	1/6W	1
R3	12K Ω	1/6W	1
R4	220 Ω	1/4W	1
R5	220 Ω	1/4W	1
R6	100K Ω	1/6W	1
R7	470 Ω	1/6W	1
R8	10K Ω	1/6W	1
R9	220 Ω	1/4W	1
R10	470 Ω	1/4W	1
R11	220 Ω	1/4W	1
R21	1 Ω	1/4W \pm 10%	1

Item	Specification		Q'ty
R101	47KΩ	1/6W	1
R102	1KΩ	1/6W	1
R103	100KΩ	1/6W	1
R104	4.7KΩ	1/6W	1
R105	2.2KΩ	1/6W	1
R106	100KΩ	1/6W	1
R107	1KΩ	1/6W	1
R108	1KΩ	1/6W	1
R109	56KΩ	1/6W	1
R110	1MΩ	1/6W	1
R111	100KΩ	1/6W	1
R201	47KΩ	1/6W	1
R202	1KΩ	1/6W	1
R203	100KΩ	1/6W	1
R204	4.7KΩ	1/6W	1
R205	2.2KΩ	1/6W	1
R206	100KΩ	1/6W	1
R207	1KΩ	1/6W	1
R208	1KΩ	1/6W	1
R209	56KΩ	1/6W	1
R210	1MΩ	1/6W	1
R211	100KΩ	1/6W	1
R308	10KΩ	1/6W	1
R309	10KΩ	1/6W	1
R310	100Ω	1/4W	1
R312	33Ω	1/2W	1
R313	220Ω	1/4W	1
R314	220Ω	1/4W	1
R315	470Ω	1/4W	1
R319	100Ω	1/4W	1
R320	10KΩ	1/6W	1
R321	10KΩ	1/6W	1
R322	22KΩ	1/6W	1
R323	10KΩ	1/6W	1
R324	10KΩ	1/6W	1
R401	10KΩ		1
R402	330Ω		1
R403	47KΩ		1
R404	47KΩ		1
R405	100KΩ		1
R407	4.7KΩ		1
R408	0		1
R409	10KΩ		1
R410	330Ω		1
R411	100KΩ		1
R413	10KΩ		1
R414	10KΩ		1
R417	100KΩ		1
R418	47Ω		1
R419	10KΩ		1
R420	10KΩ		1
R421	100KΩ		1
R422	47Ω		1
R423	10KΩ		1
R424	10KΩ		1
R425	22KΩ		1
R426	4.7KΩ		1
R432	1KΩ	1/4W	1
R433	1KΩ	1/4W	1

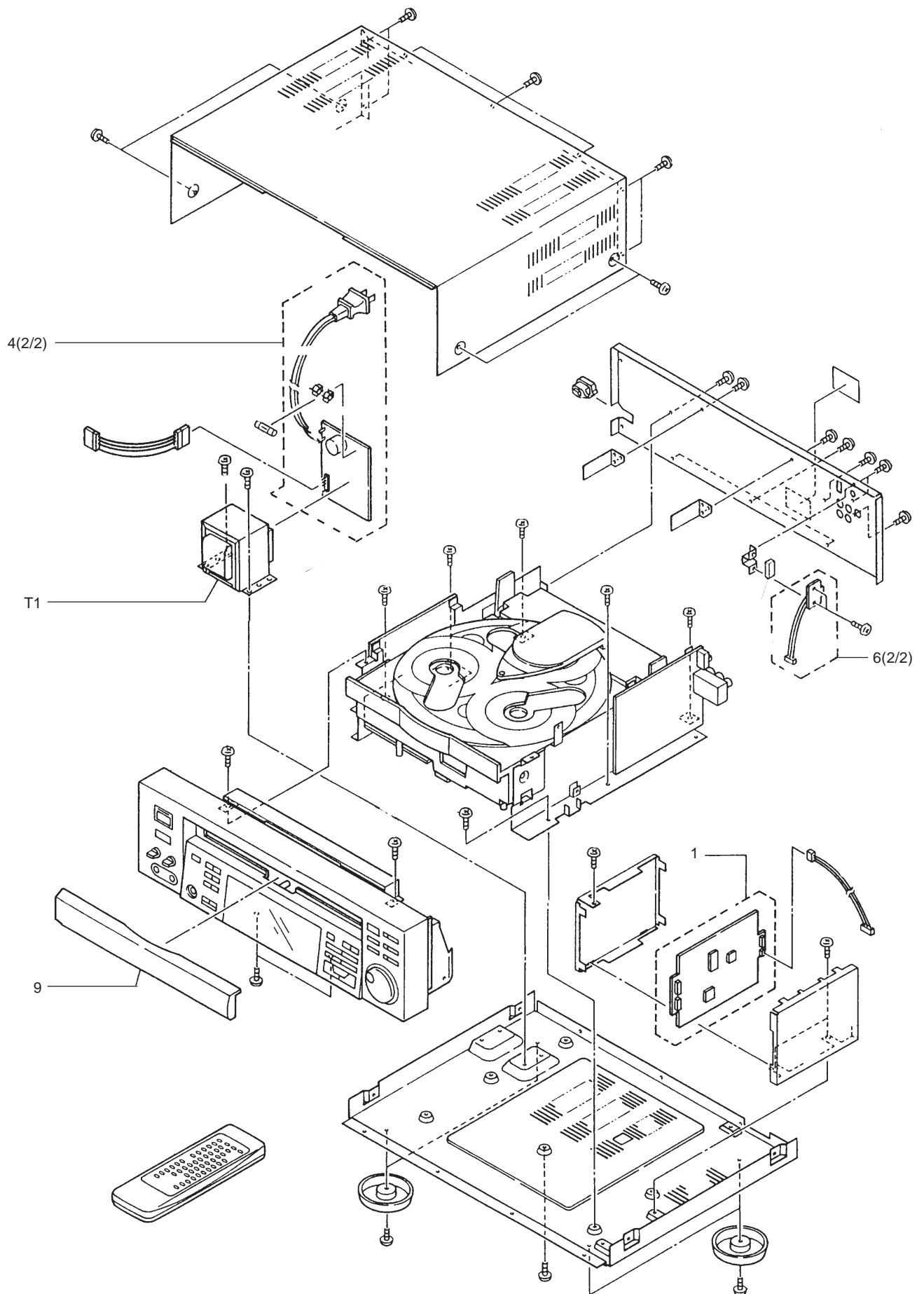
Item	Specification		Q'ty
R434	2.2KΩ, C		1
R435	2.2KΩ, C		1
R501	2.2KΩ, C		1
R502	10Ω, C		1
R503	27KΩ, C		1
R504	5.6KΩ, C		1
R505	2.2KΩ, C		1
R506	4.7KΩ, C		1
R507	10KΩ, C		1
R508	10KΩ, C	1/8W	1
R509	330Ω, C	1/8W	1
R510	470Ω, C		1
R511	22KΩ, C		1
R512	15KΩ, C		1
R513	130KΩ, C		1
R514	22KΩ, C		1
R515	12KΩ, C		1
R516	12KΩ, C		1
R517	47KΩ, C		1
R518	22KΩ, C		1
R519	47KΩ, C		1
R520	1.5KΩ, C		1
R521	15KΩ, C		1
R522	2.2KΩ, C		1
R523	1MΩ, C		1
R524	47Ω, C		1
R525	47KΩ	1/8W	1
R526	220KΩ	1/8W	1
R527	13KΩ		1
R528	22KΩ		1
R529	47KΩ	1/8W	1
R530	15KΩ, C		1
R531	47KΩ, C		1
R532	220KΩ, C		1
R533	10KΩ, C		1
R534	2.2KΩ, C		1
R535	56KΩ, C		1
R536	22KΩ, C		1
R537	12KΩ, C		1
R538	22KΩ, C		1
R539	10KΩ, C		1
R540	1KΩ, C		1
R541	10KΩ, C		1
R542	220KΩ, C		1
R543	47KΩ, C		1
R544	2.2MΩ, C		1
R545	33KΩ, C		1
R546	180KΩ	1/8W	1
R547	820Ω	1/8W	1
R548	3.3KΩ, C		1
R549	47KΩ, C		1
R550	4.7KΩ, C		1
R551	10KΩ, C		1
R552	10KΩ, C		1
R553	27KΩ	1/8W	1
R554	8.2KΩ	1/8W	1
R555	10KΩ, C		1
R556	1.8KΩ	1/6W	1
R556	1.8KΩ, C		1

Item	Specification	Q'ty
R560	4.7KΩ 1/6W	1
R561	10Ω 1/2W	1
R562	820Ω 1/6W	1
R563	330Ω 1/6W	1
R565	10KΩ, C	1
R572	1KΩ, C	1
R573	1KΩ, C	1
R574	1KΩ, C	1
R575	1KΩ, C	1
R576	1KΩ, C	1
R577	1KΩ, C	1
R578	47KΩ, C	1
R581	220Ω, C	1
R582	220Ω, C	1
R583	220Ω, C	1
R585	220Ω, C	1
R601	2.2KΩ, C	1
R602	2.2KΩ, C	1
R603	2.2KΩ, C	1
R604	2.2KΩ, C	1
R605	2.2KΩ, C	1
R606	2.2KΩ, C	1
R607	2.2KΩ, C	1
R608	2.2KΩ, C	1
R609	1MΩ, C	1
R610	680Ω, C	1
R612	4.7KΩ, C	1
R613	4.7KΩ, C	1
R614	18K	1
R615	220Ω, C	1
R618	47KΩ, C	1
R619	47KΩ, C	1
R620	47KΩ, C	1
R621	47KΩ, C	1
R622	220Ω, C	1
R623	220Ω, C	1
R624	220Ω, C	1
R625	220Ω, C	1
R626	220Ω, C	1
R627	220Ω, C	1
R628	220Ω, C	1
R629	220Ω, C	1
R630	4.7KΩ, C	1
R641	4.7KΩ, C	1
R642	4.7KΩ, C	1
R702	220Ω, C	1
R704	100Ω, C	1
R705	4.7KΩ, C	1
R706	4.7KΩ, C	1
R707	4.7KΩ, C	1
R708	390Ω, C	1
R710	10KΩ, C	1
R711	10KΩ, C	1
R712	10KΩ, C	1
R713	20KΩ, C	1
R722	1KΩ, C	1
R723	1KΩ, C	1
R725	100KΩ, C	1
R732	1KΩ, C	1

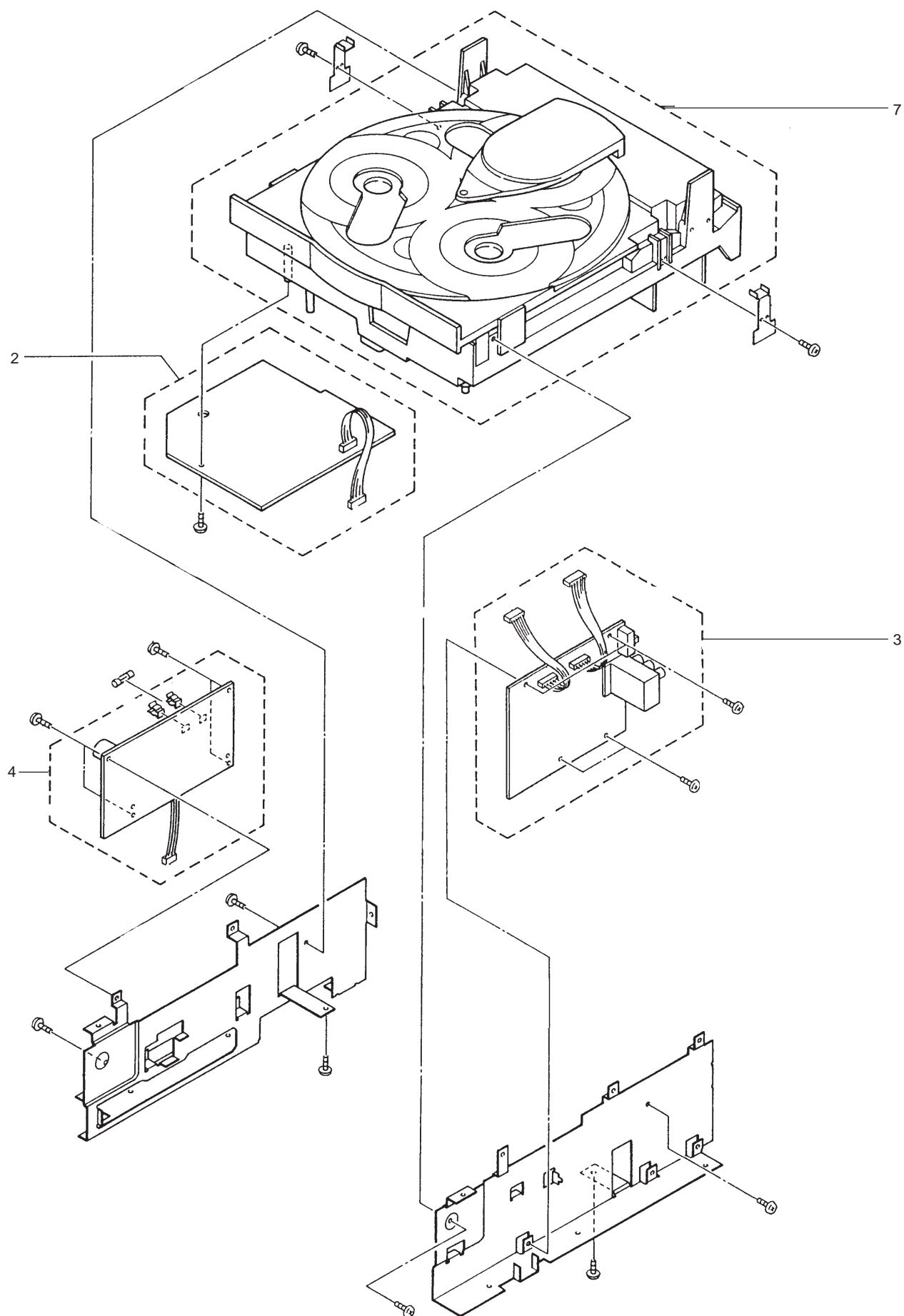
Item	Specification	Q'ty
R733	1KΩ, C	1
R735	100KΩ, C	1
R803	10Ω, C	1
R806	1KΩ, C	1
R807	75Ω, C	1
R808	1KΩ, C	1
R809	75Ω, C	1
R810	5.1KΩ, C	1
R811	2.2KΩ, C	1
R812	2.2KΩ, C	1
R813	560Ω, C	1
R814	1.5KΩ, C	1
R815	150Ω, C	1
R816	100Ω, C	1
R817	75Ω, C	1
R818	4.7KΩ, C	1
R902	10KΩ 1/6W	1
R903	10KΩ 1/6W	1
R914	330Ω 1/6W	1
R915	330Ω 1/6W	1
R916	4.7KΩ 1/6W	1
R917	4.7KΩ 1/6W	1
R918	4.7KΩ 1/6W	1
R948	4.7KΩ 1/6W	1
R950	220Ω 1/6W	1
R951	220Ω 1/6W	1
R952	220Ω 1/6W	1
R953	220Ω, C	1
R956	220Ω, C	1
R958	4.7KΩ 1/6W	1
R960	220Ω 1/6W	1
R961	220Ω 1/6W	1
R962	220Ω 1/6W	1
R971	39KΩ 1/6W	1
R972	39KΩ 1/6W	1
R981	4.7KΩ 1/6W	1
R982	4.7KΩ 1/6W	1
R983	1KΩ 1/6W	1
R984	1KΩ 1/6W	1
R985	1KΩ 1/6W	1
R986	1KΩ 1/6W	1
R987	1KΩ 1/6W	1
R988	1KΩ 1/6W	1
R989	120Ω 1/6W	1
R990	120Ω 1/6W	1

EXPLODED VIEWS

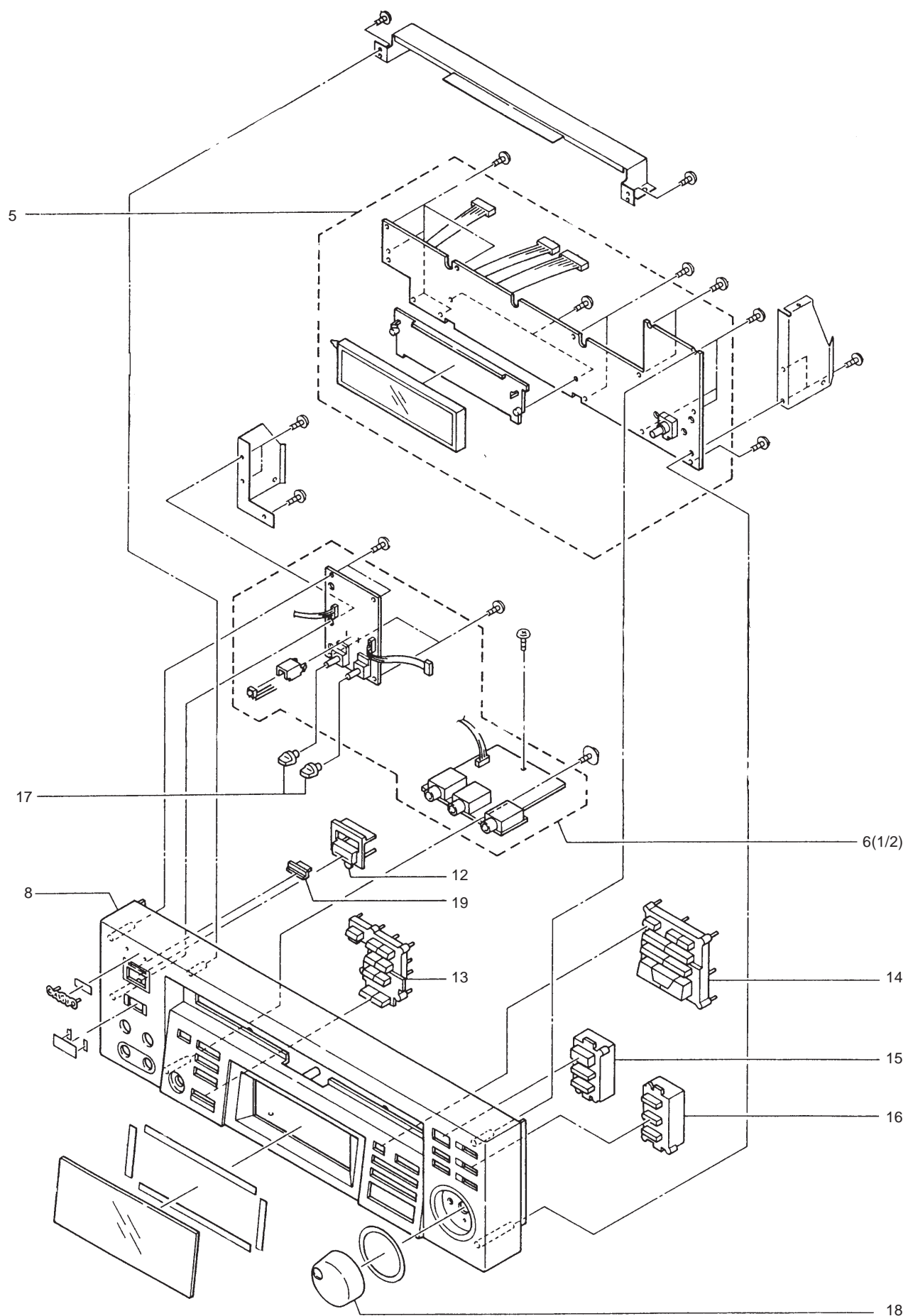
Cabinet 1/3



Cabinet 2/3



Cabinet 3/3



CASIO TECHNO CO.,LTD.
Overseas Service Division

8-11-10, Nishi-Shinjuku
Shinjuku-ku, Tokyo 160-0023, Japan